

CURRICULUM VITAE



Prof. Ir Dr Mohd Sapuan bin Salit
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Education

1. PhD (Materials Engineering), 1998, Montfort University, Leicester, UK
2. M.S. (Engineering Design), 1994, Loughborough University, Leicestershire, UK
3. B. S. Mechanical Engineering, 1990, University of Newcastle, NSW, Australia

Areas of Interest

1. Composite Materials
2. Natural Fibre Composites
3. Materials Selection
4. Concurrent Engineering
5. Design for Sustainability
6. Total Design
7. Design Methods
8. Conceptual Design

Professional Qualification/ Membership/ Affiliation

1. Founder Chairman and Honorary Member, Malaysian Society of Sugar Palm Development and Industry
2. Immediate Past Vice President, Asian Polymer Association, New Delhi, India (2008-2018)
3. Fellow, Society of Automotive Engineers, International, USA (FSAE)
4. Honorary Member, Asian Polymer Association, New Delhi, India (MAPA Hon)
5. Fellow, Malaysian Scientific Association (FMSAE)
6. Fellow, Institute of Materials Malaysia (FIMM)
7. Fellow, Plastic and Rubber Institute Malaysia (FPRIM)
8. Life Fellow, International Biographical association, UK (LFIBA)
9. Member, International Association of Engineers (IAENG Member)
10. Member, International Network on Engineering Education and Research (Member iNEER)
11. Life Member, Institute of Energy Malaysia (LMInTeM)
12. Professional Engineer, Board of Engineers, Malaysia (PEng)
13. Member, Malaysia Design Council
14. Member, Rakan Alam Sekitar
15. Member, Persatuan Pegawai Akademik, UPM.

16. Member, International Society for Development and Sustainability, Japan
 17. Member, International Association of Advanced Materials (MIAAM)

Appointments

Position	Duration
1. Head (Appointed by Vice Chancellor, UPM), Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia	1 May 2020 - now
2. Visiting Professor, SUPMECA – Institut superior de mecanique de Paris, 3 Rue Fernand Hainaut, 93407 Saint-Ouen, Cedex, France	2 September 2019-13 September 2019
3. Research Associate (Appointed by Deputy Vice Chancellor, Research and Innovation), Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	24 June 2019-24 June 2021
4. Adjunct/Visiting Professor/External Examiner, Mechanical Engineering Field Faculty of Information Sciences and Engineering (FISE) Management & Science University (MSU) Shah Alam, Selangor, Malaysia, Visit: 25-27 September 2019	1 April 2019-31 March 2021
5. Professor of Composite Materials (A Grade (JUSA A – VK5), Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia, Date of Interview: 30 January 2019	1 February 2019-now
6. Research Associate, Biocomposite Technology Laboratory, Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	1 September 2017 – 31 August 2019
7. Research Advisor, Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Product (INTROP), Universiti Putra Malaysia	September 2017 – September 2019
8. Head Advanced Engineering Materials and Composites Research Centre (AEMCRC) Faculty of Engineering, Universiti Putra Malaysia. (Awaiting approval from Deputy Vice Chancellor, Research and Innovation, UPM)	January 2017 – now
9. Visiting Professor, Mechanical Engineering Field Faculty of Information Sciences and Engineering (FISE), Management & Science University (MSU), Shah Alam, Selangor, Malaysia	1 March 2016 – 28 February 2018
10. Head (Appointed by Vice Chancellor, UPM), Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia	1 August 2014 – 31 July 2017
11. Principal Researcher, Aerospace Manufacturing Innovation Research Centre (AMRC), Faculty of Engineering, UPM	1 July 2014-30 June 2017
12. Visiting Professor, Aligarh Muslim University, Aligarh, Uttar Pradesh, India	Feb 2014- March 2014
13. Visiting Professor (Sabbatical leave), Centre of Manufacturing Integration, Faculty of Engineering, Universiti Malaya, Kuala Lumpur	1 Oct 2013- 30 Jun 2014

14. Head of Research Program, UPM (Appointed by Deputy Vice Chancellor (Research and Innovation), UPM, Composites Technology Research Program, UPM 1 April 2013-31 March 2015
15. Head, Engineering Composites Research Group, Faculty of Engineering, UPM 2009- now
16. Research Advisor, Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Product (INTROP), Universiti Putra Malaysia February 2013 – 31 Januari 2015
17. Research Associate, Aerospace Manufacturing Research Centre (AMRC), Faculty of Engineering, UPM 30 November 2012 – 2014
18. Visiting Professor, Universitas Malahayati, Bandar Lampung, Indonesia 10 -15 December 2012
19. Head, Postgraduate Program in Advanced Composite Materials, Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia 1 February 2012 – 31 January 2014
20. Professor of Composite Materials (B Grade (JUSA B – VK6), Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia 1 October 2011 – Now
21. Research Associate, Materials Technology and Processing Laboratory, Institute of Advanced Technology, UPM 7 August 2012 – 6 August 2015
22. Research Associate, Laboratory of Advanced Materials and Nanotechnology, Institute of Advanced Technology, UPM 1 May 2011-1 May 2013
23. Visiting Professor, Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka 1 May 2011 – 30 April 2013
24. Research Coordinator, Department of Mechanical and Manufacturing Engineering, UPM 7 March 2011 – 31 Dec 2013
25. Research Associate, Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) UPM 1 June 2010 – 30 July 2014
26. Head of Program (Structural Composites), Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA) UPM 1 September 2009 – 6 August 2012
27. Head (Appointed by Vice Chancellor, UPM), Department of Mechanical and Manufacturing Engineering, UPM 1 August 2008 – 6 February 2011
28. Research Associate, Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA) UPM 1 September 2009-31 August 2010
29. Research Coordinator, Department of Mechanical and Manufacturing Engineering, UPM 1 July 2008 – 31 July 2008
30. Head of Program, Advanced Composite Materials, Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA), UPM 1 June 2008 – 31 August 2009
31. Head, Field of Study with Thesis (Materials Engineering), Department of Mechanical and Manufacturing Engineering, UPM 1 August 2007-31 July 2009

32. Head, Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM 1 July 2007-31 December 2018
33. Head, Research Area (Materials Engineering) of Research Area (Materials Engineering), Department of Mechanical and Manufacturing Engineering, UPM 1 July 2007-31 December 2008
34. Visiting Academic, (Sabbatical Leave), School of Engineering, Design and Technology, University of Bradford, Bradford, BD7 1DP, UK 1 May 2007 – 31 January 2008
35. Professor of Composite Materials (C Grade (JUSA C – VK7), Department of Mechanical and Manufacturing Engineering, UPM 1 May 2007 – September 2011
36. Coordinator, Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM 1 December 2006-31 July 2007
37. Associate Professor, Department of Mechanical and Manufacturing Engineering, UPM 1 July 2002 – 30 April 2007
38. Research Associate, Advanced Materials Laboratory Institute of Advanced Technology (ITMA), Universiti Putra Malaysia 1 Sept. 2001 – 1 Sep 2006
39. Visiting Lecturer, (Sabbatical Leave), Department of Engineering Design and Manufacture, Universiti Malaya, Kuala Lumpur, Malaysia 1 Dec. 2001 – 30 May 2002
40. Head (Appointed by Vice Chancellor, UPM), Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM 15 Feb. 2001 – 31 Aug.2001
41. Acting Head, Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM 3 Nov 2000 – 31 December 2000
42. Lecturer, (Founder Staff), Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM, (Dual appointment) 1 Dec. 1999- 14 Feb. 2001
43. Coordinator of Final Year Project, Dept. of Mechanical and Manufacturing Engineering, UPM Nov.1998-April 2000
44. Lecturer, Department of Mechanical and Manufacturing Engineering, UPM 18 June 1998 – 30 June 2002
45. Tutor, Department of Mechanical and Manufacturing Engineering, UPM 1996 – 17 Jun 1998
46. Tutor, Department of Mechanical and Systems Engineering, UPM 4 Oct. 1994 – 1996
47. Executive Officer, R&D Department, Perusahaan Otomobil Nasional Berhad (PROTON), HICOM Industrial Estate, Batu 3, Shah Alam, Selangor, Malaysia 7 June 1993 – 27 Sep. 1993
48. Tutor, Department of Chemical Engineering, Universiti Malaya 2 Feb 1993-31 May 1993
49. Research Assistant, Department of Chemical Engineering, Universiti Malaya 17 August 1990 – 31 Jan 1993

Publications

Journals

1. H. Masjuki, A.M. Zaki and **S.M. Sapuan**, A rapid test to measure performance, emission and wear of a diesel engine fueled with palm oil diesel, *Journal of the American Oil Chemists' Society (JAOCS)*, **70**, no. 10, pp. 1021-1025, 1993 (Impact factor = 0.964) (Q1, 1997).
2. H. Masjuki and **S.M. Sapuan**, Palm oil methyl esters as lubricant additive in a small diesel engine, *Journal of the American Oil Chemists' Society*, **72**, no. 5, pp. 609-612, 1995 (impact factor = 1.228) (Q1, 1997).
3. **S.M. Sapuan**, H. Masjuki and A. Azlan, The use of palm oil as diesel fuel substitute, *Proceedings of the Institution of Mechanical Engineers (IMechE), Journal of Power and Energy, Proceedings Part A*, **210**, no. A1, pp. 47-53, 1996 (Impact factor = 0.118 (1997)) (Q4).
4. **S.M. Sapuan** and H.S. Abdalla, A prototype knowledge-based system for the material selection of polymeric-based composites for automotive components, *Composites Part A: Applied Science and Manufacturing*, **29A**, no. 7, pp. 731-742, 1998 (Impact factor = 0.687).(Q1).
5. **S.M. Sapuan**, Foot on the pedal research, *Materials World*, **6**, no. 11, pp. 690-691, 1998 (Impact factor = 0.099) (Q4).
6. **S.M. Sapuan**, A fibre-reinforced plastics in automotive pedal boxes, *Polymers and Polymer Composites*, **7**, no. 6, pp. 421-430, 1999 (Impact factor = 0.857). (Q2).
7. **S.M. Sapuan**, A knowledge-based system for material selection in mechanical engineering design, *Materials and Design*, **10**, no. 8, pp. 687-695, 2001 (Impact factor = 0.167).(Q4).
8. E.S. Sadique, S. Ramakrishna, S. Basri, **S.M. Sapuan** and M.M.H.M. Ahmad, Numerical modeling for lubrication of the rolling process line contact by hard EHL theory using boundary element method, *Science in China (Scientia Sinica) (Series A), Mathematics, Physics, Astronomy*, **44**, Supplementary, pp. 86-94, 2001 (Impact factor = 0.309) (Q4, 2003).
9. M.Onsa, **S.M. Sapuan**, S.Basri, M.M.H. Megat. Ahmad and M.A. Maleque, Elastohydrodynamic lubrication study of hard rolling contact using boundary element method, *Industrial Lubrication and Tribology*, **53**, no. 4, pp. 148-154, 2001 (Impact factor = 0.12) (Q4).
10. **S.M. Sapuan**, N. Suddin and M.A. Maleque, A critical review of polymeric-based composite automotive bumper system, *Polymer and Polymer Composites*, **8**, no. 8, pp. 627-636, 2002 (Impact factor = 0.368) (Q3).
11. **S.M. Sapuan**, M.S.D. Jacob, F. Mustapha and N. Ismail, A prototype knowledge based system of material selection for ceramic matrix composites of automotive engine components, *Materials and Design*, **23**, no. 8, pp. 701-708, 2002 (Impact factor = 0.434) (Q1).
12. M.M.N. Megat Johari, A.A. Abang Abdullah, M.R. Osman, **S.M. Sapuan**, N. Mariun, S. Jaafar, H.Omar, A.H. Ghazali and M.Y. Rosnah, A new engineering education model for Malaysia, *International Journal of Engineering Education*, **18**, no. 1, pp. 8-16, 2002 (Impact factor = 0.244) (Q3, 2003).
13. **S.M. Sapuan**, M. Harimi and M.A. Maleque, Mechanical properties of epoxy/coconut shell filler particle composites, *Arabian Journal for Science and Engineering Section B: Engineering*, **28**, no 2B, pp. 171-181, 2003 (Impact factor = 0.02) (Q4).
14. M.A. Maleque, H.H. Masjuki and **S.M. Sapuan**, Vegetable based biodegradable lubricating oil additives, *Industrial Lubrication and Tribology*, **55**, no. 3, pp. 137-143, 2003 (Impact factor = 0.167) (Q4).

15. M.N.R. Arib, **S.M. Sapuan**, M.M.H.M. Ahmad, P. Tahir and K.Z.M. Dahlan, A literature review of pineapple fibre reinforced polymer composites, *Polymer and Polymer Composites*, **12**, no. 4, pp. 341-348, 2004 (Impact factor = 0.463) (Q2).
16. F.Mustapha, **S.M. Sapuan**, N. Ismail and A. Shamsuri, A computer based intelligent system for fault diagnosis of an aircraft engine, *Engineering Computation: International Journal for Computer Aided Engineering Software*, **21**, no. 1, pp. 78-90, 2004 (Impact factor = 0.536) (Q3).
17. F.A. Ansari, K.A. Abbas and **S.M. Sapuan**, Estimation of surface film conductance during cooling of fish packages, *Proceedings of the Institution of Mechanical Engineers, Journal of Process Mechanical Engineers, Proceedings Part E*, **218**, no. E4, pp. 271-276, 2004 (Impact factor = 0.14) (Q4).
18. A.A.Y. Basria, N.M. Adam, **S.M. Sapuan**, M. Daud, H. Omar, M.M.H.M. Ahmad, and F. Abas, Predictions for thermal performance of solar air heaters by internet based mathematical simulation, *Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy*, **218**, no. A8, pp. 579-587, 2004 (Impact factor = 0.263) (Q4).
19. **S.M. Sapuan**, M.A. Maleque, M. Hameedullah, M.N. Suddin and N. Ismail, A note on the conceptual design of polymeric composite automotive bumper system, *Journal of Materials Processing Technology*, **159**, no. 2, pp. 145-151, 2005 (Impact factor = 0.4648) (Q2).
20. S.S.S. Imihezri, **S.M. Sapuan**, M.Hamdan and S.Sulaiman, A study on comparison of V and X ribbings for polymeric based composite automotive clutch pedal using mould flow analysis software, *Materials and Design*, **26**, no. 2, pp. 157-166, 2005 (Impact factor = 0.636) (Q3).
21. **S.M. Sapuan**, Concurrent design and manufacturing process of automotive composite components, *Assembly Automation*, **25**, no. 2, pp. 146 – 152, 2005 (Impact factor = 0.061) (Q4).
22. **S.M. Sapuan** and M.A. Maleque, Design and fabrication of natural woven fabric reinforced epoxy composite for household telephone stand, *Materials and Design*, **26**, no. 1, pp. 65-71, 2005 (Impact factor = 0.636) (Q3).
23. C.Y. Lai, **S.M. Sapuan**, M. Ahmad, N. Yahya and K.Z.H.M. Dahlan, Mechanical and electrical properties of coconut coir fiber-reinforced polypropylene composites, *Polymer-Plastics Technology and Engineering*, **44**, no. 4, pp. 619-632, 2005 (Impact factor = 0.352) (Q4).
24. M. Harimi, M. Megat, **S.M. Sapuan**, and A. Idris, Numerical analysis of emission component from combustion of palm oil wastes, *Biomass and Bioenergy*, **28**, no. 3, pp. 339-345, 2005 (Impact factor = 1.216) (Q1).
25. S.A. Mutasher, **S.M. Sapuan**, B.B. Sahari and A.M.S. Hamouda, Torsion transmission capacity of a hybrid aluminium composite driveshaft, *Polymers and Polymer Composites*, **14**, 2, pp. 175-184, 2006 (Impact factor = 0.470) (Q3).
26. **S.M. Sapuan**, M.R. Osman and Y. Nukman, State of the-art of the concurrent engineering technique in automotive industry, *Journal of Engineering Design*, **17**, no. 2, 143-157, 2006 (Impact factor = 0.383) (Q3).
27. S.H. Tang, Y.M. Kong, **S.M. Sapuan**, R. Samin and S.Sulaiman, Design and thermal analysis of plastic injection moulding, *Journal of Materials Processing Technology*, **171**, no. 2, pp. 259-267, 2006 (Impact factor = 0.5236) (Q2).
28. S.S.S. Imihezri, **S.M. Sapuan**, S.Sulaiman, M.M. Hamdan, E.S. Zainuddin, M.R. Osman and M.Z. A. Rahman, Mould flow and component design analysis of polymeric based composite automotive clutch pedals, *Journal of Materials Processing Technology*, **171**, no. 3, pp. 358-365, 2006 (Impact factor = 0.5236) (Q2).

29. O.M. Addin, **S.M. Sapuan**, E. Mahdi and M. Osman, Prediction and detection of failures in laminated composite materials using neural networks – a review, *Polymer and Polymer Composites*, **14**, no. 4, pp. 433 – 441, 2006 (Impact factor = 0.470) (Q3).
30. **S.M. Sapuan**, Using the morphological chart technique for the design of polymeric-based composite automotive pedals, *Discovery and Innovation*, **18**, no. 4, pp. 311-317, 2006 (Impact factor = 0.033) (Q4).
31. H.Y. Sastra, J.P. Siregar, **S.M. Sapuan** and M.M. Hamdan, Tensile properties of *Arenga Pinnata* fibre reinforced epoxy composites, *Polymer-Plastics Technology and Engineering*, **45**, no. 1-3, pp.149-155, 2006 (Impact factor = 0.358) (Q4).
32. M.N.R. Arib, **S.M. Sapuan**, M.M.H.M. Ahmad, P. Tahir and K.Z.M. Dahlan, Mechanical properties of pineapple leaf fibre reinforced polypropylene composite, *Materials and Design*, **27**, no. 5, pp. 391-396, 2006 (Impact factor = 0.785) (Q3).
33. **S.M. Sapuan**, A. Leenie, M. Harimi, and Yeo K.B., Mechanical properties of woven banana fibre reinforced epoxy composites, *Materials and Design*, **27**, no. 8, pp. 689-693, 2006 (Impact factor = 0.785) (Q3).
34. T. Rihayat, M. Saari, A.R. Suraya, M.H.Mahmood, K.Z.H.M. Dahlan, W.M.Z.W. Yunus and **S.M. Sapuan**, Synthesis and thermal characterization of polyurethane/clay nanocomposites based on palm oil polyol, *Plastics-Polymer Technology and Engineering*, **45**, no. 12, pp. 1323 - 1326, 2006 (Impact factor = 0.358) (Q4).
35. T.R.A.Abo-Alhol, M.Y. Ismail, **S.M. Sapuan** and M.M.H.M. Ahmad, The effects of quality circle participation on employee perception and attitude in five Malaysian companies, *Journal of Scientific and Industrial Research*, **65**, no. 12, pp. 970-976, 2006 (Impact factor = 0.387) (Q4).
36. A. S. Mokhtar K. A. Abbas, **S. M. Sapuan** and A.O.Ashraf, Thermal Diffusivity variation study of cold stored Malaysian *Pangasius Sutchi* at 10°C, *International Journal of Food Properties*, **9**, no.4, pp. 917-925, 2006 (Impact factor = 0.485) (Q3).
37. K.A. Abbas, **S.M. Sapuan** and A.S. Mokhtar, Shelf life assessment of Malaysian *Pangasius sutchi* during cold storage, *Sadhana: Academy Proceedings in Engineering Sciences*, **31**, no. 5, pp. 635-643, 2006 (Impact factor = 0.395) (Q3).
38. K.A. Abbas, M. Hamdan, **S.M. Sapuan**, W. Mohamad, J. Bakar and I. Dincer, Numerical analysis of heat transfer in cooling of fish packages, *International Communications in Heat and Mass Transfer*, **33**, no. 7, pp. 889 – 897, 2006 (Impact factor = 0.489) (Q3).
39. F.H. Abdalla, A.M., Saad, Y.A. Khalid, **S.M. Sapuan**, A.M.S. Hamouda, B.B. Sahari and M.M. Hamdan, Design and fabrication of low cost filament winding machine, *Materials and Design*, **28**, no. 1, pp. 234-239, 2007 (Impact factor = 0.983) (Q3).
40. S.H. Tang, Y.J. Tan, **S.M. Sapuan** and S.Sulaiman, The use of experimental design of Taguchi method in the design of mould for plastic injection mould for reducing warpage, *Journal of Materials Processing Technology*, **182**, no. 1 – 3, pp. 418-426, 2007 (Impact factor = 0.615) (Q2).
41. S.A. Mutasher, B.B. Sahari, A.M.S. Hamouda and **S.M. Sapuan**, Static and dynamic characteristics of a hybrid aluminium/composite drive shaft, *Journal of Materials: Design and Applications, Proceedings of the Institution of Mechanical Engineers*, **221**, no. 2, pp. 63-75, 2007 (Impact factor = 0.464) (Q3).
42. A.F. Hamed, Y.A. Khalid, **S.M. Sapuan**, M.M. Hamdan, T.S. Younis and B.B. Sahari, Effects of winding angles on the strength of filament wound composite tubes subjected to different loading modes, *Polymer and Polymer Composites*, **15**, no. 3, pp. 199-206, 2007 (Impact factor = 0.361) (Q3).

43. Y.A.Khalid, A.F. Hamed and **S.M. Sapuan**, Pressure carrying capacity of reinforced plastic tubes, *Polymer-Plastics Technology and Engineering*, **45**, no. 6, pp. 651-659, 2007 (Impact factor = 0.333) (Q4).
44. S.A. Mutasher, B.B. Sahari, **S.M. Sapuan** and A.M.S. Hamouda, Experimental study of bending fatigue characteristics of a hybrid aluminum/composite drive shaft, *Journal of Composite Materials*, **41**, no. 10, pp. 2267-2280, 2007 (Impact factor = 0.693) (Q2).
45. M.F.M. Alkbir, A.M.S. Hamouda, **S.M. Sapuan** and E. Mahdi, The crashworthiness behaviour of filament wound hexagonal glass fibre epoxy composite tubes, *Polymer and Polymer Composites*, **15**, no. 8, pp. 653-654, 2007 (Impact factor = 0.361) (Q3).
46. M. A. Maleque, F.Y. Belal and **S.M. Sapuan**, Mechanical properties study of pseudo-stem banana fibre epoxy composites, *Arabian Journal on Science and Engineering*, **32**, no. 2B, pp. 359-364, 2007 (Impact factor = 0.082) (Q4).
47. T. Rihayat, M. Saari, M. H. Mahmood, W.M.Z.W. Yunus, A.R. Suraya, K.Z.H.M. Dahlan and **S.M. Sapuan**, Mechanical characterization of environmentally friendly polyurethane/clay nanocomposites, *Polymer and Polymer Composites*, **15**, no. 8, pp. 647-652, 2007 (Impact factor = 0.361) (Q3).
48. K. N. M. Tohit, S. Sulaiman, N. Ismail, M.Y. Ismail and S.M. Sapuan, Improvement of accuracy level using FMEA and control plan techniques for automotive fender shield assembly, *Journal of Scientific and Industrial Research*, **66**, no. 10, pp. 811-818, 2007 (Impact factor = 0.178) (Q4).
49. Y.A. Khalid and **S.M. Sapuan**, Wear analysis of centrifugal slurry pump impellers, *Industrial Lubrication and Tribology*, **59**, no. 1, pp. 18 – 28, 2007 (Impact factor = 0.444) (Q3).
50. P.R. Arora, M.S.D. Jacob, **S.M. Sapuan**, M. Elsadiq, M. Saleem and P. Edi, Experimental evaluation of fretting fatigue apparatus, *International Journal of Fatigue*, **29**, no. 5, pp. 941-952, 2007 (Impact factor = 1.020) (Q1).
51. M.S.D. Jacob, P.R. Arora, **S.M. Sapuan**, M. Elsadiq and M. Saleem, Modelling of fretting fatigue crack initiation: asymptotic study, *International Journal of Fatigue*, **29**, no. 7, pp. 1328-1338, 2007 (Impact factor = 1.020) (Q1).
52. A.O. Addin, **S.M. Sapuan**, E. Mahdi and M. Othman, A Naïve-bayes classifier for damage detection in engineering materials, *Materials and Design*, **28**, no. 8, pp. 2379-2386, 2007 (Impact factor = 0.983) (Q3).
53. H. Zahedi, N.M. Adam **S.M. Sapuan** and M.M.H.M. Ahmad, Effect of storage tank height and volume on performance of solar water heater, *Journal of Scientific and Industrial Research*, **66**, no. 2, pp. 146-151, 2007 (Impact factor = 0.178) (Q4).
54. M.M. Davoodi, **S.M. Sapuan** and R. Yunus, Development of fibre reinforced epoxy composite bumper absorber for automotive bumper system, *Journal of Polymer Materials*, **25**, no. 1, pp. 15-21, 2008 (Impact factor = 0.373) (Q4).
55. A.K. Amiruddin, **S.M. Sapuan** and A.A. Jaafar, Analysis of glass fibre reinforced epoxy composite hovercraft hull base, *Materials and Design*, **29**, no. 7, pp. 1453-1458, 2008 (Impact factor = 1.028) (Q2).
56. M.M. Davoodi, **S.M. Sapuan** and R. Yunus, Conceptual design of a polymer composite automotive bumper absorber, *Materials and Design*, **29**, no. 7, pp. 1447 – 1452, 2008 (Impact factor = 1.028) (Q2).
57. F.H. Abdalla, **S.M. Sapuan**, M.M. Hamdan and B. Sahari, Internal pressure carrying capacity for different loading modes of filament wound pipes from glass fibre reinforced epoxy

- composites, *Polymer-Plastics Technology and Engineering*, **47**, no. 8, pp. 802 — 808, 2008 (Impact factor = 0.342) (Q4).
58. A. F. Hamed, M. M. Hamdan, **S. M. Sapuan** and B. B. Sahari, Theoretical analysis for calculation of the through thickness effective constants for orthotropic thick filament wound tubes, *Polymer-Plastics Technology and Engineering*, **47**, no. 10, pp. 1008-1015, 2008 (Impact factor = 0.342) (Q4).
 59. Syaubari, M. Saari, T.G. Chuah, G. Zulkafli, M. Ishak and **S.M. Sapuan**, Preparation of conjugated p-aminobenzamidine on thermo-sensitive poly (NIPAM) by irradiation grafted process, *Polymer-Plastics Technology Engineering*, **47**, no. 7, pp. 692-696, 2008 (Impact factor = 0.342) (Q4).
 60. Z. Leman, **S.M. Sapuan**, M. Azwan, M.A. Maleque and M.M.H.M. Ahmad, The effect of environmental treatments on fiber surface properties and Tensile strength of sugar palm fibre reinforced epoxy composites, *Polymer Plastics Technology and Engineering*, **47**, no. 6, pp. 606 - 612, 2008 (Impact factor = 0.342) (Q4).
 61. D. Bachtiar, **S.M. Sapuan** and M. Hamdan, The effect of alkaline treatment on tensile properties of sugar palm fibre reinforced epoxy composites, *Materials and Design*, **29**, no. 7, pp. 1285-1290, 2008 (Impact factor = 1.028) (Q2).
 62. U.M.K., Anwar, M.T. Paridah, H. Hamdan, S.B. Bakar and **S.M.Sapuan**, Impregnation and drying process of treated bamboo strips with low molecular weight phenol formaldehyde (LMwPF) resin, *Journal of Polymer Materials*, **25**, no. 2, pp. 35-50, 2008 (Impact factor = 0.394) (Q4).
 63. Z. Leman, **S.M. Sapuan**, A.M. Saifol, M.A.Maleque and M. Hamdan, Moisture absorption behaviour of sugar palm fibre reinforced epoxy composites, *Materials and Design*, **29**, no. 8, pp. 1666-1670, 2008 (Impact factor = 1.028) (Q2).
 64. E.S. Zainudin, J.P. Siregar, A.A.A. Rashdi and **S.M. Sapuan**, Design of an automatic egg cooker for boiled and poach eggs, *Journal of Food Science and Technology*, **45**, no. 2, pp. 170-172, 2008 (Impact factor = 0.197) (Q4).
 65. K. Karmegam, M.Y. Ismail, **S.M. Sapuan** and N. Ismail, Conceptual design and prototype of an ergonomic back-leaning posture support for motorbike riders, *Journal of Scientific and Industrial Research*, **67**, no. 8, pp. 599-604, 2008 (Impact factor = 0.387) (Q4).
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Research Grants

No.	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed /Ongoing)
INTERNATIONAL GRANT (MAIN RESEARCHER)					
1.	Natural Fibre Composites	Main researcher in Malaysia	Research Scheme 'Hibah Bersaing', Indonesia Government of Directorate General of Higher Education (DIKTI) (with Universitas Andalas, Padang, Indonesia), Amount: Indonesian Rupiah (RP) 45 millions. Contract number: 003/H.16/PL/HB-MT/III-2010, 4 th March 2010 Letter of Rector Univesitas Andalas, Indonesia Head Dr. Ing. Hairul Abral	2010 – 2011	Completed
2.	Sugar Palm Fibre Reinforced Biodegradable Sugar Palm Starch Composites: Development and Characterization	Main Researcher	SEARCA Regional Professorial Chair Grant, Philippines USD 5,000	2015-2016	Completed
INTERNATIONAL TRAVEL GRANT					
1.	Invited to receive ISESCO Science Prize, Gold Medal, during The Fourth Islamic Conference of Ministers of Higher Education and Scientific Research, Baku, Azerbaijan	Main Researcher	Travel Grant from ISESCO, Morocco Amount USD 6358	6-8 Oct. 2008	Completed

5.	Invited as Keynote Speaker at the Second Annual International Conference on Green Technology and Engineering, 15 – 17 April 2009, Universitas Malahayati, Bandar Lampung, Lampung, Indonesia.	Main Researcher	Travel Grant from Universitas Malahayati, Lampung, Indonesia Amount: RM 3328	2009	Completed
2.	Invited to receive Alumni Award, University of Newcastle, NSW, Australia	Main Researcher	Travel grant from University of Newcastle, NSW, Australia Amount: RM 6500	2012	Completed
3.	Academic Visit to Indonesia as Visiting Professor at Universitas Malahayati, Lampung, Indonesia	Main Researcher	Travel Grant from Universitas Malahayati, Indonesia Indonesian Rupiah (RP) 22.785 millions	2012	Completed
4.	Invited to attend 26 th Khwarizmi International Award Iranian Research Organization for Science and Technology (IROST), Ministry of Science, Research and Technology, Iran, Tehran, Iran	Main Researcher	Travel Grant from IROST, IR Iran Amount: RM 8500	2013	Completed
5	Invited to attend International Seminar on Strategy to Build Competitiveness in ASEAN Economic Community Era (SBC-MEA), Universitas Abulyatama, Banda Aceh, Indonesia.	Main Researcher	Travel Grant from Universitas Abulyatama, Aceh, Indonesia Amount: RM1100	2016	Completed
6.	Invited to attend the Sixth International Conference on System Modelling and Advancement in Research Trends (SMART 2017), Teerthankeer Mahaveer University, Moradabad, India	Main Researcher	Travel Grant from Teerthankeer Mahaveer University, Moradabad, India Amount: RM 2300	2017	Completed
7.	Invited to attend the Seminar of Writing Scientific Articles for Lecturers and Students, 25 th -26 th January 2018, Indonesian College of Management, Informatics and Computer (STMIK Indonesia), Padang, Indonesia.	Main Researcher	Travel Grant from Sekolah Tinggi Manajemen Informatika dan Komputer (STMIK Indonesia) Padang, Indonesia Amount: RM 520	2018	Completed
8.	Invitede to attend the International Polymer Conference of Thailand	Main Researcher	Travel Grant from Polymer Society of Thailand, Ministry of Science and	2018	Completed

	(PCT-8), Amari Hotel, Bangkok		Technology, Bangkok, Thailand Amount: RM 3907		
9.	Invited to attend the 11th AUN/SEED-Net Regional Conference on Energy Engineering and the 15th DOST-ERDT Annual Conference, Manila, Philippines	Main Researcher	Travel Grant from the Japan International Cooperation Agency (JICA) Amount: RM 2292	2018	Completed
10.	Invited to attend the Second International Conference on Chemistry, Industry and Environment, Aligarh Muslim University, Aligarh, India	Main Researcher	Travel Grant from Aligarh Muslim University, Aligarh, India Amount: RM 2700	2019	Completed
11	Invited to attend the 5 th International Conference on Value Addition & Innovation in Textiles (COVITEX), Faisalabad, Pakistan	Main Researcher	Travel Grant from National Textile University, Faisalabad, Pakistan Amount: RM3400	2019	Completed
12	Invited to attend MIPANet, Universitas of Jember, Indonesia	Main Researcher	Travel Grant from Universitas Jember, Jember, Indonesia Amount: RM2500	2019	Completed
13	Invited to attend the 2 nd International Conference on Technical Textiles (ITTC 2020), Faisalabad, Pakistan	Main Researcher	Travel Grant from National Textile University, Faisalabad, Pakistan Amount: RM3500	2020	Completed
INTERNATIONAL GRANT (CO-RESEARCHER)					
1.	(Proect ECI-2(M1): Development of an Electronics-Based Energy Management Control System	Co-researcher	Source of fund: ASEAN Australia Energy Group Amount: Australian dollar \$ 350,000	1991-1993	Completed
2.	Finite Element Modelling of Lubricated Surface in Rolling Contact	Co-researcher	Source of fund: Commission of the European Communities, Brussels, Belgium Amount: Pound Sterling 265,013 (Applied-information obtained from the proposal) Head of Project: Dr ShahNor Basri (my involvement was from 1998-2001)	1994-1997 (original y) extende d to 2001	Completed
INDUSTRIAL GRANT/PRIVATE SECTOR GRANT (MAIN RESEARCHER)					
1.	Thermoplastic polyurethane (Texin® 255 000000)	Main Researcher	Source of Fund: Bayer Co (Malaysia) Sdn Bhd, Petaling Jaya, Selangor, Malaysia Amount: RM 724	2010	Completed
2.	Exhibited products in the Expo with free booth in Malaysian Furniture &	Main Researcher	Source of fund: Kuala Lumpur and Selangor Furniture Industry	2018	Completed

Furnishings Fair (MF3),
Home Expo, Furnish in Style,
10-12 August 2018, Kuala
Lumpur Convention Centre,
KLCC

Association, Shah
Alam, Selangor
Amount: RM6,250

3.	Free participation for 11 staff and students to attend International Rubber Conference 2018 (IRC 2018) PRIM MARGMA Education Initiative Kuala Lumpur Conference Center (KLCC)	Main Researcher	Source of fund: The Malaysian Rubber Glove Manufacturers Association (MARCMA), Petaling Jaya, Selangor Amount: RM 11,600	2018	Completed
4.	Composite Anti Roll Bar	Main Researcher	Proton Sdn Bhd, Shah Alam Amount: In-kind two engineering drawings for automotive anti-roll bar and technical advice and testing facility	2015 - 2018	Completed
5.	Characterization and Formulation of Biocomposite Materials for Safety Helmet Among Palm Oil Plantation Workers in Malaysia	Main Researcher	Universiti Putra Malaysia (UPM) - Sime Darby Research (SDR) Amount: RM 70,000	7 July 2017 – 30 Sept 2018.	Ongoing
6.	Kenaf/PLA Composites	Main Researcher	Steelcase Sdn Bhd, Puchong, Selangor Amount: In negotiation	31 Dec 2019- 30 Dec 2020	Ongoing

INDUSTRIAL/PRIVATE SECTOR GRANT (CO-RESEARCHER)

1.	Sterilization process in palm oil mill	Co-researcher	Source of fund: MIMOS Berhad: Amount: No record	1990-1991	Completed
2.	Malaysian Engineering Education Model	Co-researcher	Source of fund: Institution of Engineers, Malaysia Amount: RM 29,500	1999-2000	Completed
3.	Oil Palm Biomass Fluized Bed Gasifier	Co-researcher	Source of Fund: Malaysian Palm Oil Board Amount: RM 60,000	2004-2007	Completed
4.	Lean Research Program Project 'Value Engineering – Link Up with Universities Program'	Co-researcher	Source of Fund: Proton Sdn Bhd Amount: RM 15,000 With Dr Khairul Anuar Mohd Ariffin	2009-2010	Completed

COMMUNITY-BASED PROJECT GRANT (MAIN RESEARCHER)

1.	Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau di Kg. Kuala Jempol	Main Researcher	UCTC Fund Scheme, under the initiative of National Blue Ocean Strategy (NBOS) No. 1, year 2015 Ministry of Education (Head of project) (Community grant)	7 July 2015-7 Septem ber 2016	Completed
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			Amount: RM 156,100.00 Project code: UCTCF-05-007		
2.	Closing Ceremony of community project on sugar palm	Main Researcher	Sepecial fund from YB Tan Sri Isa Samad, MP of Jempol Amount: RM 1000	2016	Completed
3.	Putra Frame (Certificate/Photo Frame Based on Biocomposite Materials) (Involving Asnaf Community, UPM, frame to be used during UPM Convocation)	Main Researcher	Source of Fund: Bursar, Universiti Putra Malaysia, Special Project Amount RM 124,014	20016-20018	Completed

COMMUNITY-BASED PROJECT GRANT (CO-RESEARCHER)

1.	Pemindahan Ilmu Proses Moden Penyadapan Nira Bagi Meningkatkan Kecekapan dan Produktiviti Gula Enau,	Co-researcher	Knowledge Transfer Grant Scheme, Jaringan Industri dan Masyarakat (KTGS JINM), Universiti Putra Malaysia Reference: UPM/900-3/2/KTG/1	22 Decemb er 2017- Decemb er 2018	Completed
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PUBLIC GRANT (MAIN RESEARCHER)

1.	Finite Element Modelling and Advanced Computation of Hard and Soft Rolling Processes	Acting Main Researcher	Source of fund: Ministry of Science, Technology and Environment, Malaysia (IRPA) Amount: RM 280,000	1 Jan. 1999-30 June 1999	Completed
2.	Concurrent Engineering Manufacturing System of Polymeric-Based Composite Automotive Pedal Box	Main Researcher	Source of fund: Ministry of Science, Technology and Environment under Experimental Applied Research Program of IRPA. Amount: RM 99,080 Project number: 09-02-04-0323-EA001 Vote number (Pusat kos): 54068	2001-2005	Completed
3.	Advanced Design and Manufacturing Techniques for Automotive Components	Main Researcher	Source of fund: Universiti Malaya Amount: RM 10,000	2001-2002	Completed
4.	Experimental and Finite Element Analysis of the Pressure Carrying Capacity for Reinforced Composite Material Tubes	Main Researcher	Source of fund: Ministry of Science, Technology and Innovation (MOSTI), Malaysia under Experimental Applied Research Program of IRPA Amount: RM 98,000.00 Project number: 09-02-04-0824-EA001 Vote number (Pusat kos): 5437600	30 Oct 2003-2006	Completed

5.	Thermomechanical Properties of Pineapple Leaf Fibre Reinforced Polystyrene Composites	Main Researcher	Source of Fund: Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia Amount: RM 76,500 Vote number: 5523413	Nov. 2007-2009	Completed
6.	Mechanical and Environmental Properties of Kenaf Fibre Reinforced Thermoplastic Polyurethane Composites	Main Researcher	Source of fund: Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia (MOHE) (Project Leader) Amount: RM 43,000	2010-2012	Completed
7.	Characterization and Development of New "Green" Composite Material from Sugar Palm Fibre for Engineering Application	Main Researcher	Source of Fund: Ministry of Agriculture and Agro-Based Industry, Malaysia (ScienceFund) R&D Fund in Agriculture Project Leader Amount: RM 141,660. Project code: 05-01-04-SF1114 Vote number: 5450527	2010-2011	Completed
8.	Effect of Carbon Nanotubes Inclusion on Fatigue Life Performance of Aircraft Composites	Main Researcher (Mentor)	Source of Fund: Research Acculturation Collaborative Effort (RACE), Ministry of Education, Malaysia Amount: RM 50,000	2012-2014	Completed
9.	Characterization and Development of Novel Biopolymer and its Biocomposites Derived from Sugar Palm Tree Source of Fund: : Exploratory	Main Researcher	Research Grant Scheme (ERGS) , Ministry of Education (Project Leader) Amount: RM 96,000	2013-2015	Completed
10.	Numerical Simulation and Experimental Studies on the Fatigue Limit and Fatigue Strength in High Temperature of Type 316L Stainless Steel	Main Researcher	Source of fund: ScienceFund, Ministry of Science, Technology and Innovation, Malaysia (MOSTI) Amount: RM 125,000 Project code: 03-01-SF1788 Vote no: 545074	Jan 2014-31 March 2016	Completed
11.	Mechanical and Biodegradability Studies of Anti-Pest Biocomposites Derived from Melaleuca Alternifolia (Tea Tree)	Main Researcher (Mentor)	Source of Fund: Research Acculturation Collaborative Effort (RACE), Phase 3 2015/2017 Ministry of Education, Malaysia Amount: RM 45000	Jan. 2015-Dec 2016	Completed

			Mantee/Head: Dr Sahari Japar (UMS) Ref: PM/TNCPI/RMC/1.3.1 0/F3		
12.	Fundamental Study on Direct Recycling of rHDPE in Concrete Structures	Main Researcher (Mentor)	Source of Fund: Research Acculturation Collaborative Effort (RACE), Phase 3 2015/2017 Ministry of Education, Malaysia Amount: RM 44,750 Mantee/Head: Dr Mohd Yuhazri Yaakob (UTeM) Ref: PM/TNCPI/RMC/1.3.1 0/F3	Jan 2015-June 2017	Completed
13.	Program no. 2 under HICoE 2016	Head of Program	Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HiCOE), Niche Area: Tropical Wood and Fibre, Ministry of Higher Education Malaysia Amount: RM 1,030,000	14 Dec 2016-Dec 2019	Completed
14.	Conceptual Design, Material Selection, Development and Characterization of Natural Fiber Reinforced Biocomposites for Structural and Non-Structural Applications	Main Researcher	Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HiCOE), Niche Area: Tropical Wood and Fibre, Ministry of Higher Education Malaysia Amount: RM 800,000	14 Dec 2016-Dec 2019	Completed
15.	Extraction of Nanocellulose and Development of Green Nanocomposites from Sugar Palm Fibers, Source of fund: Ministry of Higher Education, Malaysia	Main Researcher	Fundamental Research Grant Scheme (FRGS) Amount: RM 99700	15 Aug 2017-14 Feb 2020	Ongoing
PUBLIC GRANT (CO-RESEARCHER)					
1.	Palm Oil Diesel	Co-researcher	Source of fund: Departmental Internal Funding, Universiti Malaya: Amount: No record	1993	Completed
2.	Finite Element Modelling and Advanced Computation of Hard and Soft Rolling Processes	Co-researcher	Source of fund: Ministry of Science, Technology and Environment, Malaysia (IRPA) Amount: RM 280,000	1998-2001	Completed

3.	A Knowledge Based Approach on Troubleshooting Aircraft Engine and Parts for Air Wing Unit (UUP-PDRM)	Co-Researcher	Source of fund: Ministry of Science, Technology and Environment under Experimental Applied Research Program of IRPA Amount: RM 144,620.00 With Dr Faizal Mustapha And YAB Dr Shamsuri Mokhtar	2001-2004	Completed
4.	Made in Malaysia Car for the Future	Co-Researcher	Source of fund: Ministry of Science, Technology and Environment under Top Down Project; Amount: RM 28,000,000	2000-2002	Completed
5.	Development of an Integrated CAD and Failure Mode and Effect Analysis System for Mechanical Components	Co-researcher	Source: ScienceFund, MOSTI, Malaysia Amount: RM 191,300.00	2006-2009	Completed
6.	Electron Beam Irradiated Thermal Resistance Polyurethane-Clay Nanocomposited Polyol	Co-researcher	Source: ScienceFund Amount: RM 219,200.00	2006-2009	Completed
7.	Modelling of Residual Stresses Relaxation of Ultrasonic Peened 2024T351 Aluminium Aircraft Materials	Co-researcher	Source of Fund: Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia Amount: RM 100,000 Project code number: 07-10-07-438FR Vote number (No. pusat kos): 5523438 Main researcher: Prof Barkawi Sahari	1 Nov 2007-30 Oct. 2009	Completed
8.	Development of Ijuk (Arenga Pinnata) Fibre Biocomposite for Small Boat Application	Co-researcher	Source of Fund: ScienceFund, MOSTI Amount: RM 250,000	2007-2009	Completed
9.	Analytical Deformation (Shrinkages and Warpage Behaviors) Model Based on Reissner's Theory for Spherical Shallow Thin Walled Plastic Shell	Co-researcher	Source of fund: Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia (MOHE) (member) Amount: RM 40,000. Account number: 9003-00327, with Unimap.	2010-2012	Completed
10.	Value Added Engineering for Automotive Parts	Co-researcher	Source of Fund: Fundamental Research Grant Scheme, Ministry of	April 2012 – March 2014	Completed

			Higher Education, Malaysia (MOHE) (Member) Amount: RM 68,000		
11.	A Hybrid Knowledge-Based System for Collaborative Green Manufacturing Management	Co-researcher	Source of Fund: Fundamental Research Grant Scheme (FRGS), Ministry of Education Amount: RM 48,000	2013-2015	Completed
12.	Laser Welding of Magnesium Alloy and Carbon Composites for Passenger Cars Chassis to Improve Fuel Efficiency	Co-researcher	Source of Fund: Fundamental Research Grant Scheme (FRGS), Ministry of Education, Amount: RM 118,000	2013-2015	Completed
13.	Characterization of Biodegradable Composites Based on Pineapple Leaf Fibre and Tapioca Bioplastic Resin	Co-researcher	Source of fund: Fundamental Research Grant Scheme (FRGS), Ministry of Education, Malaysia Amount: RM 83,000	Oct. 2014-July 2016	Completed
14.	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	Fundamental Research Grant Scheme (FRGS), Phase 1/2015 Ministry of Higher Education, Malaysia Amount: RM 113,800 Vote number: 5524741 Project code: 03-01-15-1636FR	2 Nov. 2015-1 Nov. 2018	Completed
15.	Prototype Development of a Safety Backrest System for Children Motorcycle Pillion Riders	Co-researcher	Prototype Research Grant Scheme (PRGS), Ministry of Higher Education, Malaysia Amount: RM 109,433.96	4 Oct 2016 – 3 Oct 2018	Completed
16.	Mercerisation Treatment Enhancement of Kenaf Fiber/Polypropylene Composites using Box-Behnken Design	Co-researcher	Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia. Amount: RM 88000	2016-2018	Completed
17.	Identification and Evaluation of Design Specification for Prototype Development of Pineapple Harvesting Basket to Potentially Reduce Physiological Load, Musculo-skeletal Symptoms and Discomfort	Co-researcher	Prototype Research Grant Scheme (PRGS), Ministry of Education, Malaysia Amount: RM 130,00.00 Project code: PRGS/1/2019/WAB01/UPM/02/2	1 Aug. 2019- 1 Aug. 2021	Ongoing
18.	Investigation of the Filament Wound Sandwich Structures as a Substitute to the	Co-Researcher	Fundamental Research Grant Scheme (FRGS)	1 Sep 2019- 1	Ongoing

	Existing Pultruded Glass Fibre Fibre Reinforced Polymer Composite in the Cross Arm Structure of High Transmission Towers		Ministry of Education, Malaysia Amount: RM 149,00.00 Project code: FRGS/1/2019/TK05/UPM/02/11 Vote number: 5540205	Sep 2022	
19.	Prototype Development of Hybrid Machine for Precision Hole Making on Composite Panel	Co-Researcher	Prototype Research Grant Scheme (PRGS) Ministry of Education, Malaysia Amount: RM 116,00.00 Project code: Not available yet Vote number: Not available yet	1 Dec 2019-30 Nov 2021	Ongoing
20	Elucidating the Synergistic Mechanism of Hybridized Fire Retardants in Natural Fibre Reinforced Composites	Co-Researcher	Fundamental Research Grant Scheme (FRGS), Ministry of Education Malaysia Amount: RM123,800 Project reference code: FRGS/1/2019/TK03/UPM/NIMAP/02/4	1 Sep 2019-31 Aug 2022	Ongoing
21	Development and Assessment of Motorcycle Safety Backrest Seat for Child Pillion	Co-Researcher	Skim Geran Penyelidikan Program R&D Negeri Selangor 2019, Selangor State Government Amount: RM 50,000	Dec 2019-Nov 2021	Ongoing
UPM BASED GRANT (MAIN RESEARCHER)					
1.	Numerical and Experimental Investigation of Fibre Reinforced Injection-Moulded Thermoplastic Composites	Main Researcher	Source of fund: UPM short-term grant Amount: RM 10,000	2001-2002	Completed
2.	Computer Aided Materials selection for Components made from Composites using Analytical Hierarchy Process	Main Researcher	Source of Fund: Research University Grant Scheme (RUGS), UPM Amount: RM 144,000 Project number: 03/01/07/0045RU Vote number: 91045	6 July 2007-30 June 2010	Completed
3.	Thermo-Mechanical properties of Sugarcane Bagasse Fibre Reinforced Unplasticized Poly (Vinylchloride) (UPVC) Composites (Project leader)	Main Researcher	Source of Fund: Research University Grant Scheme (RUGS), UPM Amount: RM 77,000 No project: 05/01/0190RU Vote number: 91190	6 July 2007-30 June 2010	Completed
4.	Studies on Biodegradable Mulch Film Derived from Cocoa Pod Husk (CPH) Filled Poly (Lactic Acid) Biocomposites	Main Researcher	Source of Fund: Research University Grant Scheme (RUGS), UPM Amount:	Aug. 2011-May 2014	Completed

5.	Analytical of Residual Stresses Thin Walled Plastic Part Natural Fibre (Rice Husk or Wood)	Main Researcher	RM 120,000 Source of Fund: Research University Grant Scheme (RUGS), UPM (Project Leader) Amount: RM 13,000 (initiative 6) Project number: 05-02-12-1917RU Vote number: 9348700	2012-2014	Completed
6.	Mechanical Properties of Pultruded Kenaf Fibre Reinforced Epoxy Vinyl Ester Composite	Main Researcher	Source of Fund: Research University Grant Scheme (RUGS), UPM (Project Leader) Amount: RM 13,000 (initiative 6) Vote number: 9348600	2012-2015	Completed
7.	Research on Biocomposites	Main Researcher	Source of fund: INTROP, UPM Allocation as Research Advisor at INTROP Amount: RM10,000	Feb. 2013- July 2014	Completed
8.	Development of Untreated and Treated Hybrid Roselle/Sugar Palm Fibre Vinyl Ester Composites for Automotive Components	Main Researcher	Source of fund: UPM Putra Grant (IPS) Amount: RM 15,000 Project number: GP-IPS/2014/9438718	Nov 2014- Oct 2016	Completed
9.	Development of Glass/Sugar Palm Fibre Reinforced Polyurethane Hybrid Composites in Automotive Anti-Roll Bar (Overall Project Title)	Head of Program (Overall Project Head)	Source of Fund: UPM Putra Grant Group Putra Initiative (IPB) Amount of overall budget: RM 556,800.00	Jan 2015- June 2017	Completed
10.	Conceptual Design, Design for Sustainability, Finite Element Analysis and Optimization of Hybrid Glass/Sugar Palm Fibre Reinforced Polyurethane Composite Automotive Anti-Roll Bar (Project Title)	Main Researcher (Head of Project)	Source of Fund: UPM Putra Grant (IPB) Amount of sub-project budget: RM 241,400.00 Vote no: 9441500 Project code: GP-IPB/2014/9441500	Jan 2015- June 2017	Completed
11.	Development and characterization of seaweed reinforced agar/sugar palm starch composite	Main Researcher	Source: Putra Grant – Graduate Project Initiative (GP-IPS grant), Universiti Putra Malaysia Amount: RM 20,000 Vote no: 9457200 Project code: GP-IPS/2015/9457200	1 Oct 2015-1 Oct. 2017	Completed
12.	Development of Hybrid Natural/Glass Fibre Reinforced Thermoplastic Composites for Side-Door Impad Beam	Main Researcher	Source of fund: Putra Grant (GP-IPS), Universiti Putra Malaysia Amount: RM 20,000	1 Dec 2016 – 31 May 2019	Completed

13.	Research on Biocomposites	Main Researcher	Source of fund: INTROP, UPM Allocation as Research Advisor at INTROP Amount: RM10,000	July 2017 - July 2019	Completed
14.	Development and Characterization of Un-Saturated Polyester Composites With Waste Rubber Glove Particles As Fillers,	Main Researcher	Geran Putra IPS Universiti Putra Malaysia Reference : UPM/700-1/2/Geran Putra Amount : RM 25000	2018-2020	Ongoing
15.	Composite Table	Main Researcher	Source of fund: Product Promotion Fund, Putra Science Park, UPM Reference: UPM/TNCPI/(BPPI)/400-8/2/1(F5) Amount: RM 17,000 Vote number: RU 9001110	Apr 2018-Apr 2019	Completed
16.	Development and Characterization of Corn/Kenaf Fiber Reinforced Corn Starch Hybrid Composites	Main Researcher	Source of fund: Geran Putra Berimpak (GPB), UPM UPM/800-3/3/1/Geran Putra Berimpak Amount: RM 99,300 Vote number: 9679800	1 Oct 2019-Sep 2021	Ongoing

UPM BASED GRANT (CO-RESEARCHER)

1.	Experimental Investigation of Hybrid Banana Pseudostem/Glass Fibre Reinforced Injection Moulded Thermoplastic Composites	Co-researcher	Source of Fund: Universiti Putra Malaysia under the Project Scheme of Newly Appointed Lecturer 2006 Amount: RM 10,000 Head: Dr Edi Syams Zainudin	2006-2007	Completed
2.	Finite Element Analysis of High Speed CNC Micro Machining Process of Titanium Alloy 6-4: Optimization of Machining Parameters	Co-researcher (Mentor)	Source of Fund: Research University Grant Scheme (RUGS), UPM, Amount: RM 30,000 Vote no: 91625 Project no: 05-01-09-0620RU	27 Aug. 2009-26 Aug. 2011	Completed
3.	Characterization and Development of Hybridized Composites Derived from Kenaf Fibre and Pineapple Leaf fibre (PALF) Reinforced High Density Polyethylene	Co-researcher	Source of fund: Research University Grant Scheme (RUGS) Amount: RM 100,000	2011-2013	Completed
4.	Modal Analysis and Active Vibration Control of the Composite Structure Using Piezoelectric Sensors and Actuators	Co-researcher	Source of Fund: Research University Grant Scheme (RUGS), UPM	2012-2014	Completed

			Amount: RM 56,000 (member) Vote number: 9378300 Head of Project: Ir Razali Samin		
5.	Influence of Oxygen Heat Treatment on Kenaf Core Fiber and Its Effects on Processing Parameters of Kenaf Polypropylene Composite for Rigid Plastic Packing Application	Co-researcher	Source: UPM Putra Grant, Grant number GP IPS/2013/9391300 Amount: RM 15,000	Nov 2013-Oct 2015	Completed
6.	Preparation, Characterization, and Humidity Control Performance of Diatomite/waste Glass Composite for Indoor Environmental Control	Co-researcher	Putra Grant (GP-IPS), Universiti Putra Malaysia Amount: RM 20,000	2016 – 2018	Ongoing
7.	Development and Characterization of Bamboo/Roselle Fiber Reinforced Epoxy Hybrid Composites	Co-researcher	Source of fund: Putra Grant (PG-IPB) Amount: RM 132,400	2016-2018	Ongoing
8.	Mechanical and Flammability Properties of Lightweight Structure Made of Flax-Based Composite for Aerospace Application	Co-researcher	Putra Grant (GP-IPS), Universiti Putra Malaysia Amount: RM 25,000 Vote number: 9663200 Project code: GP-IPS/2018/9663200 Head: Dr Mohd Zuhri Mohamed Yusuff	20 th Sep 2018-19 th Sep 2020	Ongoing

Awards/Recognition (Current)

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Certificate of Appreciation	In recognition of an outstanding contribution to the quality of the journal as the Associate Editor of JSAEM 2017-2018	Presented by Editor-in-Chief Journal of the Society of Automotive Engineers Malaysia	International	10 th October 2018
2.	Best Micrograph (SEM Material Category – 3 rd Place) (Master of Student (Rozilah Abdullah); as Supervisor and Co-author of paper)	In the 27 th Scientific Conference of Microscopy Society of Malaysia On the 3 rd – 4 th December 2018, at the Mudzaffar Hotel, Melaka, Malaysia	Microscopy Society of Malaysia	National	25 th October 2018

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| 3. | Certificate of Appreciation | In recognition of his dedicated and timely support to review and evaluate the dossiers of our TTS Faculty as "Foreign Reviewer" | Presented by Prof Dr Tanver Hussain Rector, National Textile University Faisalabad, Pakistan | International | 2018 |
| 4. | Penghargaan Kementerian Riset, Teknologi dan Pendidikan Tinggi, Program Pascasarjana Fakultas Pertanian Universitas Andalas | Sebagai Penguji Luar, Universitas Andalas Pada Ujian Tertutup (Ujian Promosi Doktor) Mochamed Asrofi | Presented by Dekan Fakultas Pertanian Dr Ir Munzir Busniah | International | 2018 |
| 5. | Certificate of Reviewing Elseview Review Recognition | In recognition of the review contributed to the journal | Journal of Evidence-Based Dental Practice | International | 2018 |
| 6. | Certificate of Reviewing Elseview Review Recognition | In recognition of the review contributed to the journal | Journal of The Taiwan Institute of Chemical Engineers | International | 2018 |
| 7. | Certificate of Excellence in Reviewing | In Recognition of an Outstanding Contribution to the Quality of the Journal DomainScience | Archives of Current Research International | International | 2019 |
| 8. | Guest of Honour | 2 nd International Conference on Chemical, Industry and Environment, Aligarh Muslim University, India | Aligarh Muslim University, India | International | 2019 |
| 9. | Professor of Eminence | Presented by Prof Mohammad Hanif Beg Pro-Vice Chancellor Aligarh Muslim University, India

During the 2 nd International Conference on Chemical, Industry and Environment, Aligarh Muslim University, India | Department of Applied Chemistry Zakir Hussain College of Engineering and Technology, Aligarh Muslim University, Aligarh, India | International | 2019 |

10.	Certificate of Participation For giving Keynote Presentation	During the 2 nd International Conference on Chemical, Industry and Environment, Aligarh Muslim University, India	Aligarh Muslim University, India	International	18 th – 19 th February 2019
11.	S.M. Sapuan , IOP Outstanding Reviewer Award 2018	Materials Research Express 2018, Institute of Physics, UK	Institute of Physics, UK	International	19 th February 2019
12.	Certificate of Participation For giving Keynote Presentation	During the 5 th International Conference on Value Addition and Innovation in Textiles 2019	National Textile University, Faisalabad, Pakistan	International	18-19 February 2019
13.	Certificate of Appreciation	For Contribution in the project of development of sugar palm in Kampung Kuala Jempol, Bahau, Negeri Sembilan	Hafiz Adha Enterprise	International	13 th March 2019
14.	Certificate of Appreciation For giving Plenary Lecture	Seminar Enau Kebangsaan 2019 at Hotel Aurora Boutique, Bahau, Negeri Sembilan and Kg. Kuala Jempol, Negeri Sembilan	Persatuan Pembangunan dan Industri Enau Malaysia	National	20 th -21 st March 2019
15.	Top Downloaded Article 2017-2018 The paper has been recognized a top 20 most read paper in Polymner Composites	Paper titled "Natural fiber reinforced polylactic acid composites: A review", Polymer Composites, Wiley, USA	Polymer Composites, Wiley, USA	International	1 April 2019
16.	Top Peer Reviewer 2019 Powered by Publons	For placing in the top 1% of reviewers in Materials Science on Publons global reviewer database, determined by the number of peer review reports performed during the 2018/19 award year.	Publons, US	International	1 & 2 April 2019
17.	Top Peer Reviewer 2019 Powered by Publons	For placing in the top 1% of reviewers in Engineering on Publons global reviewer database, determined by the	Publons, US	International	June 2019

number of peer review reports performed during the 2018/19 award year.

18.	Top Peer Reviewer 2019 Powered by Publons	For placing in the top 1% of reviewers in Cross-Field on Publons global reviewer database, determined by the number of peer review reports performed during the 2018/19 award year.	Publons, US	International	17 th September 2019
19.	Certificate of Appreciation for delivering Keynote Lecture	International Conference on Advances in Mechanical and Manufacturing Engineering, Adya Hotel, Langkawi, Malaysia	Universiti Putra Malaysia	National	17 th September 2019
20.	Certificate of Appreciation for delivering Keynote Lecture	MIPANet School 2019, Universitas of Jember, Jember, Indonesia	Universitas of Jember, Jember, Indonesia	International	17 th September 2019
21.	Certificate of Appreciation for contribution as an Invited Speaker	Workshop on Scientific Article Writing for High Impact Journal INTROP, UPM, Serdang, Malaysia	INTROP, UPM, Serdang, Malaysia	National	21-23 October 2019
22.	Certificate of Recognition For valuable presence and contribution as a Keynote Speaker	The Third International Conference on Materials Science and Research, Pullman Kuala Lumpur, Bangsar, Kuala Lumpur, Malaysia	Universiti Putra Malaysia	National	24-26 October 2019
23.	Certificates of Appreciation for contribution as Invited Speaker/Session Chairman	The Second Wood & Biofibre International Conference (WOBIC2019), The Promenade Hotel, Kota Kinabalu, Sabah	Universiti Putra Malaysia	National	28 th November 2019
24.	Top Research Scientists Malaysia Award 2019 (TRSM 2019)	Awarding body: Academy of Science Malaysia	Award was presented by YB Isnaraissah Munirah Majilis, Deputy Minister, Energy, Science, Technology, Environment and Climate Change (MESTECC)	National	28 th – 29 th November 2019

25.	Finalist, Distinguished Alumni Awards, Australian Alumni Awards 2019	Awarding body: Malaysian Australian Alumni Council (MAAC), Kuala Lumpur Marriot Hotel, Kuala Lumpur	Malaysian Australian Alumni Council (MAAC)	International	3 rd -5 th February 2019
26.	Certificate of Appreciation for contribution as Keynote Speaker	2019 3 rd International Conference on Functional Materials and Chemical Engineering (ICFMCE 2019), Chulalongkorn University, Bangkok. Thailand	Chulalongkorn University, Bangkok. Thailand	International	4 th December 2019
27.	Membership Certificate as Honorary Member (PPIEM H1)	Persatuan Pembangunan dan Industri Enau Malaysia Presented at Annual General Meeting of PPIEM, Serdang, Selangor	Persatuan Pembangunan dan Industri Enau Malaysia		13 th December 2019
28.	Certificate of Appreciation as Chairman	Persatuan Pembangunan dan Industri Enau Malaysia Presented at Annual General Meeting of PPIEM, Serdang, Selangor	Persatuan Pembangunan dan Industri Enau Malaysia	National	15 th – 17 th December 2019
29.	Top Cited Article 2018-2019	The paper has been recognized as a top cited paper in Starch/Starke by Wiley-VCH, John Wiley and Sons Pte Ltd, Singapore Title of paper: Characterization of tapioca starch biopolymer composites reinforced with micro scale water hyacinth fibers	Wiley-VCH, John Wiley and Sons Pte Ltd, Singapore	International	19 th December 2019

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| 30. | Gold Award,
Invention and
Innovation Awards | Malaysia Technology Expo 2020 (MTE2020 Kuala Lumpur)
The 19 th International Expo on Inventions and Innovations, Kuala Lumpur, Malaysia | Malaysia Technology Expo 2020 (MTE2020 Kuala Lumpur) | National | 19 th
December
2019
1 |
| | Development of Thermally Polycrystalline Photovoltaic Module Based Novel Biocomposite Materials | | | | |
| 31. | Certificate of Appreciation | Outstanding Award in Teaching, Faculty of Engineering, Universiti Putra Malaysia | Universiti Putra Malaysia | Institutional | 2019 |
| 32. | Anugerah Makalah Jurnal (Kategori Sains & Teknologi), | Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
Presented By Vice Chancellor, UPM
RM 5,000 Grant | Universiti Putra Malaysia | Institutional | 2017 |
| 33. | Poster displayed during Majlis Apresiasi Penyelidikan 2017 | Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM | Universiti Putra Malaysia | Institutional | 2017 |
| | For Faculty of Engineering, UPM | | | | |
| | Top 3 : H-index and Citations | | | | |
| | In Category of Professor | | | | |
| | Ranked no 1: H-index 43; Number of citation: 6856 | | | | |

34. Poster displayed during Majlis Apresiasi Penyelidikan 2017
 For Faculty of Engineering, UPM
 Top 3 : Number of Publications as Corresponding Author (2017)
 In Category of Professor
 Ranked no 1: number of publication as Corresponding Author = 18
- Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017
 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
- Universiti Putra Malaysia Institutional 2017
35. Poster displayed during Majlis Apresiasi Penyelidikan 2017
 For Faculty of Engineering, UPM
 Top 3 : Number of Publications as Corresponding Author and Co-Author (2017)
 In Category of Professor
 Ranked no 1: number of publication as Corresponding Author and Co-Author = 56
- Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017
 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
- Universiti Putra Malaysia Institutional 2017

36. Poster displayed during Majlis Apresiasi Penyelidikan 2017
 For Faculty of Engineering, UPM
 Top 3 : Most Cited Papers Since 2016
 In Category of Professor
 Ranked no 3: Most Cited Papers Since 2016
 Cited 37 times
- Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017
 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
- Universiti Putra Malaysia Institutional 2017
37. Poster displayed during Majlis Apresiasi Penyelidikan 2017
 For Institute of Tropical Forestry and Forest Products (INTROP), UPM
 Top 3 : H-index and Citations
 In Category of Professor
 Ranked no 1: H-index 43; Number of citation: 6856
- Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017
 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
- Universiti Putra Malaysia Institutional
38. Poster displayed during Majlis Apresiasi Penyelidikan 2017
 For Institute of Tropical Forestry and Forest Products (INTROP), UPM
 Top 2 : Number of Publications as
- Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017
 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
- Universiti Putra Malaysia Institutional

Corresponding
Author (2017)

In Category of
Professor

Ranked no 1:
number of
publication as
Corresponding
Author = 16

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| 39. | Poster displayed during Majlis Apresiasi Penyelidikan 2017 | Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM | Universiti Putra Malaysia | Institutional |
|-----|--|---|---------------------------|---------------|

Top 3 : Number
of Publications
as
Corresponding
Author and Co-
Author (2017)

In Category of
Professor

Ranked no 1:
number of
publication as
Corresponding
Author and Co-
Author = 30

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|-----|--|---|---------------------------|---------------|
| 40. | Poster displayed during Majlis Apresiasi Penyelidikan 2017 | Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017 Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM | Universiti Putra Malaysia | Institutional |
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Top 3 : Number
of Publications
as
Corresponding
Author and Co-
Author (2017)

In Category of
Professor



Ranked no 1:
number of
publication as
Corresponding
Author and Co-
Author = 30

41. Poster displayed during Majlis Apresiasi Penyelidikan 2017
For Institute of Tropical Forestry and Forest Products (INTROP), UPM
Majlis Apresiasi Penyelidikan Universiti Putra Malaysia 2017
Auditorium Rashdan Baba, Bangunan Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), UPM
Universiti Putra Malaysia Institutional
Top 3 : Most Cited Papers Since 2016
In Category of Professor
Ranked no 2:
Most Cited Papers Since 2016
Cited 41 times
42. INTROP Distinguished Researcher Award 2019
Honours the elite Intropian who has demonstrated excellence in research performance, received national and international recognition, and significantly contributed to the progress of Tropical Wood and Fibre Research
Presented by representative from Ministry of Education Malaysia during INTROP Innovation Open Day 2019, OSH Hall, UPM, Serdang
Universiti Putra Malaysia Institutional

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|-----|--|---|---------------------------|---------------|
| 43. | INTROP Top Student Award 2019
Dr Ahmad Ilyas Rushdan | I am the Main Supervisor Presented by representative from Ministry of Education Malaysia during INTROP Innovation Open Day 2019, OSH Hall, UPM, Serdang | Universiti Putra Malaysia | Institutional |
| 44. | Anugerah Setia Putra | Sempena Majlis Gemilang Putra dan Sambuatan Hari Pekerja Universiti Putra Malaysia 2019

Di Dewan Besar, Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah, UPM
Disampaikan oleh Naib Canselor, UPM
RM 300 Sijil Simpanan Premium | Universiti Putra Malaysia | Institutional |
| 45. | Anugerah Perkhidmatan Cemerlang | Sempena Majlis Gemilang Putra dan Sambuatan Hari Pekerja Universiti Putra Malaysia

Di Dewan Besar, Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah, UPM
Disampaikan oleh Naib Canselor, UPM
RM 1,000 | Universiti Putra Malaysia | Institutional |
| 46. | Anugerah Kecemerlangan Dalam Pengajaran (Pra Siswazah) Semester II 2017/2018 | Presented by Head of Department of Mechanical and Manufacturing Engineering, Sempena Program Inovasi dan Apresiasi 2018 (PIA 2018), Faculty of Engineering, UPM | Universiti Putra Malaysia | Institutional |



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| 47. | Anugerah Kecemerlangan Dalam Pengajaran (Pasca Siswazah) Semester I 2018/2019 | Presented by Head of Department of Mechanical and Manufacturing Engineering, Sempena Program Inovasi dan Apresiasi 2018 (PIA 2018), Faculty of Engineering, UPM | Universiti Putra Malaysia | Institutional |
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| 48. | Certificate of Appreciation | as the PhD supervisor for Ahmed Ilyas Rushdan who has successfully graduated on time (GOT) in 2019, Universiti Putra Malaysia. | Universiti Putra Malaysia | Institutional |
| | | | | |
| 49. | Certificate of Appreciation | as the PhD supervisor for Muhammad Huzaifah Mohd Roslim who has successfully graduated on time (GOT) in 2019, Universiti Putra Malaysia. | Universiti Putra Malaysia | Institutional |
| | | | | |
| 50. | Malaysian Vaccines and Pharmaceuticals (MVP) Doctor of Philosophy Gold Medal
Dr Ahmad Ilyas Rushdan | I am the main supervisor. Presented during 43rd Convocation Ceremony, Universiti Putra Malaysia Academic Session 2018/2019 | Universiti Putra Malaysia | Institutional |



51. Silver, Development of thermally stable polycrystalline photovoltaic module based biocomposite materials
Engineering Innovation & Exhibition (EIE2019), Faculty of Engineering, Universiti Putra Malaysia
Universiti Putra Malaysia Institutional 2018

52. Top Downloaded Paper 2018-2019 is among the top 10% most downloaded papers!
Natural fiber reinforced polylactic acid composites: A review
The paper has been recognized as one of the most read in Polymer Composites, Wiley
Polymer Composites, Wiley International 10 December 2018

53. Best Award Paper
Energy Utilization and Saving measures in Composite Industry: A Review
15th DOST-ERDT Conference and 11th AUN/SEED-Net Regional Conference on Energy Engineering. International 10 December 2018

54. Best Award Paper
Conceptual design of automobile engine rubber mounting composite using TRIZ-Morphological chart-analytic network process technique
Defence Technology, China Ordinance Society International 10 December 2018

55. Publons Peer Review Awards 2018
For Placing in the Top 1% of Reviewers in Materials Science on Publons' Peer Review Database Determined by the Number of Peer Review Reports Performed by the 2017-2018 Award Year
Publons.com, Analytics, USA Clarivate International 10 December 2018

56. The Best General Book (Category of Flora and Fauna), National
Pokok Enau: Potensi dan Pembangunan Produk
ISBN 978-967-344-747-3
National Development Book Foundation (YPBN) National 10 December 2018

Book Award 2018					
57.	Gold Medal	Innovation of sugar palm yarn for structural applications	Minggu Penyelidikan dan Inovasi (MPI' 18). Organized by Universiti Malaysia Terengganu, Universiti Sultan Zainal Abidin (Unisza) and TATI University College, held at Stadium Tertutup Kompleks Sukan Negeri, Kuala Nerus, Terengganu, Malaysia	National	10 December 2018
58.	Best Award	Poster Prioritizing the product design specification of side-door impact beam using analytic hierarchy process	5th Mechanical Engineering Research Day (MERD'18), Technology Campus, UTeM, Ayer Keroh, Melaka, Malaysia	National	10 December 2018
59.	Batch Fellow	SAE For exceptional professional distinction by reason of outstanding and extraordinary qualification, experience and sustained accomplishments in the field of mobility	Society of Automotive Engineers International (SAE), USA	International	10 December 2018
60.	Guest of Honour	Keynote Speaker	the Sixth International Conference on System Modelling and Advancement in Research Trends (SMART 2017), Teerthankeer Mahaveer University, Moradabad, India	International	10 December 2018
61.	Certificate of Appreciation	Outstanding Award in Teaching, Faculty of Engineering	Universiti Putra Malaysia	Institutional	10 December 2018
62.	Endeavour Research Promotion Award (Academic Award)	In recognition of the efforts for IEEE UP Section members	Silver Jubilee Celebration of IEEE Uttar Pradesh Section, Awards ceremony, presented by College of Computing Sciences and Information Technology, Teerthankeer Mahaveer University, Moradabad, India	International	13 th March 2019
63.	Finalist, Distinguished Alumni Award 2017	Distinguished Alumni Award 2017	Malaysian Australian Alumni Award 2017, Kuala Lumpur	International	13 th March 2019

64.	Fourth Place	Pertandingan Projek Penyelidikan Inovasi Nanoteknologi, Kategori Sarjana, Nano Kebangsaan 2017	National Nanaotechnology Centre	National	3 rd May 2019
65.	Second Place Winner	Poster Presentation	Wood and Biofiber International Conference 2017 (WOBIC 2017), Putrajaya, Malaysia	National	3 rd May 2019
66.	Citation of Excellence 2017 Award, Emerald Publishing, UK	Natural fiber reinforced polymer composites in industrial applications: Feasibility of date palm fibers for sustainable automotive industry, Journal of Cleaner Production	Emerald Publishing, UK, Emerald Publishing Limited	International	3 rd May 2019
67.	Outstanding Technical Paper Award Based on Published Journal 2016, Certificate of Achievement	Implementation of the expert decision system for environmental assessment in composite materials selection for automotive components	SAE International Malaysia	International	3 rd May 2019
68.	Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HiCOE) 290016		COE: Institute of Tropical Forest Forestry and Forest Products (INTROP)	National	2019
69.	IOP Outstanding Reviewer Award 2016	Materials Research Express 2016	Institute of Physics, UK	International	2019
70.	Vice Chancellor Fellowship Award 2016	Winner of Category Outstanding Researcher Award for the Cluster of Science and Technology	Sultan of Selangor	Institutional	12 th November 2019
71.	Vice Chancellor Fellowship Award 2016	Winner of Category Best of Journal Publication Award for the Cluster of Science and	Sultan of Selangor	Institutional	5 December 2019

Technology,
presented by

72.	Outstanding Service Award 2016		Universiti Putra Malaysia	Institutional	2017
73.	Ranked the first in Elsevier Authors Analysis, top 500 authors	number of publications at Universiti Putra Malaysia over the period 2012 to 2016 with 101 publications	Delon Lee, Elsevier (Singapore) Pte Ltd. Titled Engineering faculty in UPM	Institutional	2017
74.	Insentif Makalah Jurnal 2016	Majlis Apresiasi Penyelidikan 2016	Prof. Dato. Dr Husaini Omar, Deputy Vice Chancellor (Research and Innovation, Universiti Putra Malaysia)	Institutional	2017
75.	Certificate of Appreciation	PhD supervisor for Ahmed Edhirej who has successfully graduated on time in 2017	Universiti Putra Malaysia.	Institutional	2017
76.	Certificate of Appreciation	PhD supervisor for Ridzwan Jumaidin who has successfully graduated on time in 2017	Universiti Putra Malaysia	Institutional	2017
77.	Certificate of Appreciation	PhD supervisor for Mastura Mohamad Taha who has successfully graduated on time in 2017	Universiti Putra Malaysia	Institutional	2017
78.	Certificate of Appreciation	PhD supervisor for Nadlene Razali who has successfully graduated on time in 2017	Universiti Putra Malaysia	Institutional	2017
79.	Certificate of Accreditation	Product Testing Laboratory, Institute of Tropical Forestry and Forest Products, Universiti Putra Malaysia (Field of Testing: Mechanical)	Department of Standard Malaysia, MOSTI, Cyberjaya, Selangor	National	2016-2019
80.	Best Paper Award	A review of different forms and types of waste plastic used in concrete structure to improve the	1 st Conference on Engineering, Technology and Education 2016), (CETEd2016), Politeknik	National	2016

mechanical
properties

Merlimau, Merlimau,
Melaka, Malaysia

81.	Highly Published Researchers in UPM	Recognized as of one the Highly Published Researchers in UPM	the 3rd EU Malaysia Higher Education Conference, Universiti Malaya, Kuala Lumpur	National	2016
82.	Certificate of Appreciation	Supervisor for Ridwan Yahaya who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
83.	Certificate of Appreciation	Supervisor for Muhd Ridzuan Mansor who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
84.	Certificate of Appreciation	Supervisor for Mohd Azaman Md Deros who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
85.	Certificate of Appreciation	Supervisor for Khairul Azhar Mohammad who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
86.	Certificate of Appreciation	Supervisor for Faris Mohammed Khair Faris Al-Oqla who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
87.	Gold Medal	Final Year Project Exhibition 2016, Faculty of Engineering (Mechanical Engineering) UPM, Title: Mechanical Properties of Anti-Pest Biocomposites Derived from Tea (As project supervisor).	Universiti Putra Malaysia	Institutional	2016

88.	Certificate of Appreciation	Appreciation on the contribution and commitment in the success of "Writing Cells" Project	Research Management Centre (RMC),UPM	Institutional	2016
89.	Ranked no 6 by UPM as author with the number of publication = 136; citations = 510 and h-index = 29, 2013-2016 based on SciVal – Authors.	TOP 100 Authors, UPM	Universiti Putra Malaysia	Institutional	2016
90.	Best PhD Student in ITMA, UPM, 2016	Dr Lamin Sanyang, (Graduated in 4 semesters with 13 publications), I was the Chairman of Supervisory Committee for his PhD)	Universiti Putra Malaysia	Institutional	2016
91.	Silver Medal	Sugar palm based products	Pameran Rekacipta Penyelidikan dan Inovasi (PRPI 2016), UPM	Institutional	2016
92.	Silver Medal	Development of Post Conditioning Injection Process For Office Furniture Task Seating Base Using 30% Glass Fiber Reinforced Polyamide 6 Composites For Global Product Engineering	Pameran Rekacipta Penyelidikan dan Inovasi (PRPI 2016), UPM	Institutional	2016
93.	Certificate of Reviewer Contribution	International Journal of Precision Engineering and Manufacturing as a reviewer for the year 2015	Springer and Korean Society of Precision Engineering	International	2015
94.	VIP Invited Speaker	The Educational Workshop and Symposium on Polymer Science and Technology 2016 (PST 2016)	Bestari Lecture Hall, UNiKL City Campus, Kuala Lumpur, Malaysia	National	2016

95.	Visiting professor	Faculty of Information Sciences and Engineering	Management Science University (MSU), Shah Alam, Selangor, Malaysia	National	2016-2018
96.	SEARCA Regional Professorial Chair Award		South East Asia Regional Centre for Graduate Study and Research in Agriculture (SEARCA), Los Banos, Laguna, Philippines	International	2016
97.	Leadership Award, SAE Fellow Grade of Membership	Recognizes and honors long-term members who have made a significant impact on society's mobility technology through leadership, research and innovation	Society of Automotive Engineers International Malaysia Group during SAE Internal Malaysia Annual General Meeting, Marina Putrajaya, Malaysia	International	2015
98.	Best Oral Presentation Award	Quasi-static lateral crushing of non-woven kenaf fibre reinforced composite hexagonal tubes	6th International Conference on Mechanical, Industrial, and Manufacturing Technologies (MIMT 2015), Melaka, Malaysia	International	2015
99.	Runner-up for the Best Manuscript	Selecting natural fibres for industrial applications,	Postgraduate Symposium on Biocomposite Technology 2015, Serdang, Selangor, Malaysia	National	2015
100.	25 Most Cited Articles 2009-2013	Material screening and choosing methods – a review	Publisher Materials Science, Elsevier	International	2014
101.	Outstanding Service Award 2014	For demonstrating outstanding service in 2014	Universiti Putra Malaysia	Institutional	2015
102.	Anugerah khidmat cemerlang, (Outstanding Service Award, UPM)		Universiti Putra Malaysia	Institutional	2015
103.	Best Technical Paper Award	Conceptual design and materials selection of components from natural fibre composites	UNIMAS STEM EnCon 2014 (International Engineering Conference 2014), Kuching, Sarawak, Malaysia, 8-10 December 2014, UNIMAS	International	2014

104.	Best Award	Paper	Materials selection of hybrid bio-composites thermoset matrix for automotive bumper beam application using Topsis method	International Conference on Plastics, Rubber and Composites, 20-21 June 2014, Langkawi, Malaysia, International Postgraduate Network (IPN Network), Malaysia	International	2014
105.	Silver Medal, Bioinnovation Awards, Kuala Lumpur		Built-in lumbar support for motorcycle	Malaysian Association of Research Scientists (MARS)	National	2014
106.	Silver Medal		Motorcycle seat with built-in lumbar support	Exhibition of Invention, Research and Innovation UPM (PRPI 2014), UPM Serdang	Institutional	2014
107.	Outstanding Service Award 2013		For demonstrating outstanding service in 2013	Universiti Putra Malaysia	Institutional	2014
108.	Best Award	Paper	Effects of carbon nanotubes fillers on nanocomposite properties	Postgraduate Symposium on Composites Science and Technology 2014 and 4 th Postgraduate Seminar on Natural Fibre Composites 2014, UPM Serdang	Institutional	2014
109.	Best Award	Paper	Effect of length in crashworthiness parameters of non-woven kenaf fibre/epoxy composite	Postgraduate Symposium on Composites Science and Technology 2014 and 4 th Postgraduate Seminar on Natural Fibre Composites 2014, UPM Serdang.	Institutional	2014
110.	Best Award	Paper	Thermal degradation behavior of alkali treated betel nut husk fibre reinforced VE composites	Postgraduate Symposium on Composites Science and Technology 2014 and 4 th Postgraduate Seminar on Natural Fibre Composites 2014, UPM Serdang	Institutional	2014
111.	Best Award	Paper	Thermal degradation behavior of alkali treated betel nut husk fibre reinforced VE composites	Postgraduate Symposium on Composites Science and Technology 2014 and 4 th Postgraduate Seminar on Natural Fibre Composites 2014	Institutional	2014
112.	Best Award	Paper	Effect of length in crashworthiness parameters of non-woven kenaf fibre/epoxy composite hexagonal tubes	Postgraduate Symposium on Composites Science and Technology 2014 and 4 th Postgraduate Seminar on Natural Fibre Composites 2014	Institutional	2014

113.	Best Paper Award	Effects of carbon nanotubes fillers on nanocomposite properties	Postgraduate Symposium on Composites Science and Technology 2014 and 4 th Postgraduate Seminar on Natural Fibre Composites 2014	Institutional	2014
114.	Silver Medal	Motorcycle seat with built-in lumbar support	Exhibition of Invention, Research and Innovation UPM (PRPI 2014) Serdang	Institutional	2014
115.	KIA Laureate of the Khwarizmi International Award	Preparation and characterization of kenaf reinforced thermoplastic composites	26 th Khwarizmi International Award, IROST, Tehran, Iran	International	2013
116.	Outstanding Reviewer, Certificate of Outstanding Contribution in Reviewing	Awarded in recognition of the contributions made to the quality of the journal	Materials and Design, Elsevier, Amsterdam, The Netherlands	International	2013
117.	Certificate of Achievement	In recognition of outstanding achievement as a 5-Star Role Model Supervisor	Universiti Putra Malaysia	Institutional	2013
118.	Outstanding Researcher Award	Outstanding Researcher Award	Faculty of Engineering, Universiti Putra Malaysia	Institutional	2013
119.	Certificate of Appreciation	The co-supervisor for Mehran Masoudi who has been awarded a PhD with distinction	Universiti Putra Malaysia	Institutional	2013
120.	Anugerah Penyelidik Cemerlang tahun 2013 (Kategori Profesor)	Faculti Kejuruteraan, UPM	Universiti Putra Malaysia	Institutional	2013
121.	Certificate of Achievement Award	In recognition of outstanding achievement as a 5-Star Role Model Supervisor	Vice Chancellor, Universiti Putra Malaysia	Institutional	2013
122.	Certificate of Appreciation	The co-supervisor for Mehran Masoudi who has been awarded a PhD with	Universiti Putra Malaysia	Institutional	2013

distinction in 2013 by
UPM.

123.	Recipient of Publication Incentive 2012	Publication Incentive 2012	Deputy Vice Chancellor (Research and Innovation), UPM	Institutional	2013
	Universiti Putra Malaysia				
	Amount received:				
	RM 35,222.56				
124.	2012 Alumni Awards	The Alumni Medal for Professional Excellence Finalist	University of Newcastle, New South Wales, Australia	International	2012
125.	Second Prize for Winner of Poster Presentation	Isocyanate chemical treatment on tensile properties of kenaf bast fibre reinforced thermoplastic polyurethane composite	SAMPE Asia 2012 Conference and Exhibition, Kuala Lumpur, Malaysia, 21st – 23rd February 2012, Society of Advancement of Materials and Processing Engineering (SAMPE), USA	International	2012
126.	Rotary Research Awards	The Rotary Club of Kuala Lumpur The Rotary Club of Kuala Lumpur	The Rotary Club of Kuala Lumpur DiRaja	National	2012
127.	Fellow (FMSA) MSA	Majlis Anugerah Kecemerlangan Sains dan Teknologi	Malaysian Scientific Association (MSA)	National	2012
128.	Bronze Medal	Prototype of a Lumbar Support for Motorcyclist	BioMalaysia'12 Exhibition, 5 th -7 th November 2012, Malaysian Biotechnology Corporation Sdn Bhd and Ministry of Science, Technology and Innovation (MOSTI)	National	2012
129.	The Best Scientific Paper and Oral Presenter Award	Development of woven fabric reinforcement from betal nut husk fiber: physical properties of BNH fiber	The UPM-UniKL Symposium on Polymeric Materials and The Third Postgraduate Seminar on Natural Fibre Composites 2012, Melaka, 2nd February 2012, UPM and UniKL MICET, Melaka	National	2012
130.	Certificate of Outstanding Teaching 2012	Faculty of Engineering of Mechanical	Universiti Putra Malaysia	Institutional	2012
131.	Sijil Penghargaan Perkhidmatan Cemerlang 2011	UPM Excellent Service Appreciation	Vice Chancellor, UPM	Institutional	2012

Certificate 2011,
UPM

132.	Anugerah Kecemerlangan Dalam Pengajaran Tahun 2012	Excellence Award in Teaching 2012),	Universiti Putra Malaysia	Institutional	2012
133.	Won the Best Poster Award	Majlis Pembentangan dan Pameran Projek Pelajar Tahun Akhir	Fakulti Kejuruteraan, UPM	Institutional	2012
134.	Certificate of Outstanding Service 2011	For demonstrating outstanding service in 2011	Universiti Putra Malaysia	Institutional	2012
135.	The Best Poster Award (Supervisor)	Properties of Cocoa Pod Filled Poly Lactic Acid Mulch Film Composites	Majlis Pembentangan dan Pameran Projek Pelajar Tahun Akhir, Fakulti Kejuruteraan, Universiti Putra Malaysia	Institutional	2012
136.	Best Poster Award	Tensile and flexural behavior of hybrid banana pseudostem/glass fibre reinforced polyester composites	8 th International Conference on Composite Science and Technology, Kuala Lumpur, March 2011, Universiti Putra Malaysia	International	2011
137.	The Best Student Poster Presenter Award	Development of high performance of sugar palm (Arenga pinnata) fibre composite via resin impregnation	International Conference on Innovation in Polymer Science and Technology 2011 (IPST2011), Bali. Indonesia, 28th November – 1 st December 2011, Himpunan Polimer Indonesia.	International	2011
138.	Silver Medal	Innovative Hand Tool Harvester for Dioscorea Hispida	International Ibn Al-Haytham's Al-Manazir Innovation and Invention Exhibition InEx 2011, Kuantan, Pahang, Malaysia, 6-7 December 2011, International Islamic University Malaysia	International	2011
139.	Outstanding Service Award, UPM, 2010	For demonstrating outstanding service in 2010	Universiti Putra Malaysia	Institutional	2011
140.	Certificate of Outstanding in Teaching 2011	Faculty of Engineering	Universiti Putra Malaysia	Institutional	2011
141.	Outstanding Researcher Award 2011	Faculty of Engineering	Universiti Putra Malaysia	Institutional	2011

142.	Silver Medal	High Moisture Durability of Moulded Biocomposite	Exhibition of Invention, Research and Innovation (PRPI 2011), 19-21 July 2011, Universiti Putra Malaysia	Institutional	2011
143.	Silver Medal	Potential of hybrid biocomposite as a substitute to carbon Fibre	Exhibition of Invention, Research and Innovation (PRPI 2011), 19-21 July 2011, Universiti Putra Malaysia	Institutional	2011
144.	Bronze Medal	Reducing water uptake of natural-58fibre composite through hybridization	Exhibition of Invention, Research and Innovation (PRPI 2011), 19-21 July 2011, Universiti Putra Malaysia	Institutional	2011
145.	Silver Medal	Potential of hybrid biocomposite as a substitute to carbon Fibre	Exhibition of Invention, Research and Innovation UPM (PRPI 2011)	Institutional	2011
146.	Bronze Medal	Reducing water uptake of natural-fibre composite through hybridization	Exhibition of Invention, Research and Innovation UPM (PRPI 2011)	Institutional	2011
147.	Silver Medal	High Moisture Durability of Moulded Biocomposite	Exhibition of Invention, Research and Innovation (PRPI 2011)	Institutional	2011
148.	Listed in UPM's Top 100 Researchers list	Top 100 Researchers list	Deputy Vice Chancellor (Research and Innovation), UPM	Institutional	2011
149.	Excellence Researcher Award	One year parking space	Faculty of Engineering, UPM	Institutional	2011
150.	Recipient of Publication Incentive 2009	Publication Incentive 2009	The Office of Deputy Vice Chancellor (Research and Innovation), UPM	Institutional	2011
	Amount received:				
151.	RM 7,828.00 Excellence Award in Teaching 2011		Faculty of Engineering, UPM	Institutional	2011
152.	First Prize	FRIM Publication Award (Category: Semi/Non-Technical Publication)	Forest Research Institute of Malaysia (FRIM)	National	2010
153.	Fellow PRIM (FPRIM)	PRIM Dinner and Award Presentation 2010	Plastic and Rubber Institute Malaysia	National	2010

154.	Bronze Medal	Concurrent decision making at the conceptual design stage using analytical hierarchy process	Malaysia Technology Expo (MTE 2010), Malaysian Association of Research Scientists (MARS)	National	2010
155.	Silver Medal	Development of Ijuk (Arenga Pinnata) Fiber Biocomposite for Small Boat Application	Exhibition of Invention, Research and Innovation UPM (PRPI 2010), 20th – 22nd July 2010, Universiti Putra Malaysia-	Institutional	2010
156.	Silver Medal	Design and Prototype of an Ergonomic Back-leaning Posture Support for Motorbike Riders	Exhibition of Invention, Research and Innovation UPM (PRPI 2010), 20th – 22nd July 2010, Universiti Putra Malaysia-	Institutional	2010
157.	Bronze Medal	Fabrication of Functionally Graded Material by Pressureless Method	Exhibition of Invention, Research and Innovation UPM (PRPI 2010), 20th – 22nd July 2010, Universiti Putra Malaysia	Institutional	2010
158.	Excellence Service Award 2009		Universiti Putra Malaysia	Institutional	2010
159.	Silver Medal	Development of Ijuk (Arenga Pinnata) Fiber Biocomposite for Small Boat Application	Exhibition of Invention, Research and Innovation UPM (PRPI 2010)	Institutional	2010
160.	Silver Medal	Design and Prototype of an Ergonomic Back-leaning Posture Support for Motorbike Riders, Exhibition of Invention	Research and Innovation UPM (PRPI 2010)	Institutional	2010
161.	Bronze Medal	Fabrication of Functionally Graded Material by Pressureless Method Exhibition of Invention	Research and Innovation UPM (PRPI 2010)	Institutional	2010
162.	Excellence Research Award	One year parking space	Faculty of Engineering, UPM	Institutional	2010
163.	Excellent Department Award	Head of Department	Faculty of Engineering, UPM	Institutional	2010

164.	Nominated for Merdeka Award 2010	The Merdeka Award Nomination Committee (Health, Science & Technology Category)	Petroleum Berhad Berhad Kuala Lumpur	Nasional	Nasional	2009
165.	First Runner-up, UTM-	Educational Innovation of Motorsport & Automotive Race '09 (EIMA RACE '09)	Litar Dato' Sagor, Kampung Teluk, Kampung Gajah, Perak, (RM 2,000) (Advisor).	Nasional		2009
166.	Excellence Researcher Award 2008 UPM	<i>Majlis Gemilang Akademia Putra, UPM</i> (Special International Award)	Deputy Vice Chancellor's (Research and Innovation) Office, Universiti Putra Malaysia	Institutional		2009
167.	Excellence Researcher Award 2008	<i>Majlis Gemilang Akademia Putra, UPM</i> Publication Incentive Award, Universiti Putra Malaysia The highest Incentive in the Category of Professor With amount of incentive of RM 13,300.00	Deputy Vice Chancellor's (Research and Innovation) Office, Universiti Putra Malaysia	Institutional		2009
168.	Best Department Award	Head of Department) (5 star rating)	Faculty of Engineering, UPM	Institutional		2009
169.	Excellence Service Award		Faculty of Engineering, UPM	Institutional		2008
170.	Excellence in Teaching Award 2008		Faculty of Engineering, UPM	Institutional		2008
171.	Excellence Service Award		Universiti Putra Malaysia	Institutional		2008
172.	Best Oral Presentation Award	Potential use of sugarcane bagasse fibre as reinforcing component in poly	VIIIth National Symposium on Polymeric Materials 2008 (NSPM'08), Naza Hotel, Penang, Malaysia.	Nasional		2008

(vinyl chloride) matrix
composites

173.	Fourth Place, 2008	Formula UTeM, Complex, Main Campus, Melaka	Varsity Sport UTeM Campus,	Universiti Teknikal Malaysia Melaka (UTeM), Durian Tunggal, Melaka	National	2008
174.	Gold Medal	ISESCO Award in Technology	Science	The Islamic Educational, Scientific and Cultural Organization (ISESCO), Rabat Morocco	International	2008
175.	Top 25 Hottest Articles in Materials and Design	The effect of alkaline treatment on tensile properties of sugar palm fibre reinforced epoxy composites, vol. 29, issue 2, 2008, pp. 262-273.		Elsevier, Netherlands	International	2008
176.	Short listed	Malaysian Toray Science Foundation (MTSF) Science and Technology Award		Malaysian Toray Science Foundation	National	2008
177.	Member Service Award	(10 year Recipient)		Society of Automotive Engineers, International, USA	International	2008
178.	Finalist	Category: Science and Technology (3 finalists). The Muslim News Award for Excellence: Fazlur Rahman Khan Award for Excellence in Engineering		The Muslim News Harrow, Middlesex HA2 6LL, United Kingdom	International	2008
179.	Vice President	Elected as Vice President		Asian Polymer Association,	International	2008-2018
180.	Honorary Life Member	Elected as Honorary Life Member		Asian Polymer Association	International	2008
181.	Vice Chancellor Fellowship Prize 2008	Excellence in Research		Universiti Putra Malaysia	Institutional	2008
182.	Best Laboratory (Publication)	Quality Day, ITMA, UPM, (As Member of Laboratory)		Universiti Putra Malaysia	Institutional	2008

183.	Best Labotarory (Research Grant)	Quality Day, ITMA, UPM. (As Member of Laboratory)	Universiti Putra Malaysia	Institutional	2008
184.	UPM Excellent Award in Research 2008	Faculty of Engineering (Parking Space for one year)	Universiti Putra Malaysia	Institutional	2008
185.	Excellent Department Special Award	Faculty of Engineering, UPM, (as Head of Department)	Universiti Putra Malaysia	Institutional	2008
186.	Certificate of Excellence in Teaching 2008		Faculty of Engineering, UPM	Institutional	2008
187.	Certification of Appreciation	Servive contributed to ITMA in achieving the research mission and Research University throughout year 2007	Advanced Technology (ITMA), UPM	Institutional	2008
188.	Excellence Researcher Award	(Majlis Anugerah Penyelidik Cemerlang (APC) UPM 2007- Malam Inspirasi Penyelidik) Publication Incentive Award, Universiti Putra Malaysia The highest Incentive in the Category of Professor With amount of incentive of RM 16,176.00	Deputy Vice Chancellor's (Research and Innovation) Office, Universiti Putra Malaysia	Institutional	2008
189.	Visiting Academic	Sabbatical leave on the Development of Computational Framework for Selecting Composite Material System using Neural Network	School of Engineering, Design and Technology, University of Bradford, UK,	International	2007-2008
190.	Certificate of Excellence in Teaching 2007		Faculty of Engineering, UPM	Institutional	2007

191.	Excellence Researcher Award 2007	Publication Incentive Award, UPM (The highest Incentive for the Category of Professor)	Universiti Putra Malaysia	Institutional	2007
192.	Silver Medal	Polymer Composite Automotive Components,	Malaysia Technology Expo	National	2006
193.	Excellence Researcher Award UPM 2005	The Best Publication Award; the highest number of journal papers published in citation indexed journals in Science and Technology	Deputy Vice Chancellor (Research and Innovation) Office, Universiti Putra Malaysia	Institutional	2006
194.	Best Publication Award	Development of Gasification System Fuelled with Oil Palm Fibres and Shells, American Journal of Applied Sciences special issue, pp. 72-76, 2005 (Science Publications, New York).	Malaysian Palm Oil Board, Kajang	National	2005
195.	Consolation Prize	Essay Writing Competition on 'Good Agricultural Practice (GAP)' Title of essay: Amalan pertanian baik ke arah pertanian lestari (Good agriculture practice towards sustainable agriculture)	Ministry of Agriculture and Agro-Based Industry, Malaysia	National	2005
196.	Excellence Award	For organizing special issues in American Journal of Applied Sciences	Science Publications, New York, USA	International	2005
197.	Silver Medal	Design and fabrication of filament winding machine,	Exhibition of Invention, Research and Innovation, Universiti Putra Malaysia	Institutional	2005
198.	UPM Certificate of Excellent Service		Universiti Putra Malaysia	Institutional	2006

199.	Bronze Medal	Fretting fatigue test rig	Exhibition of Invention, Research and Innovation UPM	Institutional	2005
200.	Certificate of Recognition	Active Member for 5 years	Society of Automotive Engineers, USA	International	2004
201.	Excellence Service Award 2003		Human Resource Development Universiti Putra Malaysia	Institutional	2004
202.	Fellow	Promoted member to Fellow	Institute of Materials Malaysia (FIMM)	National	
203.	Life Fellow	Elected as Life Fellow	International Biographical Association (LFIBA), Cambridge, UK	International	2003
204.	Best paper award		Symposium on Concurrent Engineering Manufacturing System for Polymeric Based Composite in 2003 (Co-author)	Institutional	2003
205.	Excellence Service Award		Universiti Putra Malaysia	Institutional	2003
206.	The Who's Who Award	Achievement 2002 Made outstanding contribution to Mechanical Engineering	International Biographical Centre, Cambridge CB2 3QP England	International	2003
207.	Decree of Merit	Outstanding contribution to Mechanical Engineering	International Biographical Centre, Cambridge CB2 3QP England	International	2002
208.	Most proactive participant award	2nd National Symposium on Polymeric Materials 2002	Plastics and Rubber Institute of Malaysia (PRIM)	National	2002
209.	21st Century Award	Achievement Illuminated Diploma of Honour in recognition of outstanding achievements in the field of Mechanical Engineering	International Biographical Centre, Cambridge CB2 3QP England	International	2002
210.	Excellence Service Award		Universiti Putra Malaysia	Institutional	2002

211.	Bronze Medal			Research and Development (R&D) Exhibition, Faculty of Engineering, UPM	Institutional	2002
212.	Bronze Medal			Invention and Research Exhibition, Universiti Putra Malaysia	Institutional	2002
213.	Anugerah Karyawan Putra Cemerlang	Science Technology	and	Chancellory, Universiti Putra Malaysia	Institutional	2002
214.	Excellence Service Award			Universiti Putra Malaysia	Institutional	2001
215.	Research Associate			Advanced Materials Laboratory, ITMA, UPM	Institutional	2001-2006
216.	Quality Service Award			Faculty of Engineering, UPM	Institutional	1999
217.	Excellence Service Award			Faculty of Engineering, UPM	Institutional	1998

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2011	Preparation for EAC Accreditation at Taylor University	Mohd Sapuan Salit	Free
2.	2017-2018	Design and Specifications of TNB Transmission Crossarms Using Composites	Zulkiflle Leman Mohd Sapuan Salit Mohd Zuhri Mohd Yusuf	RM 14,831.52
3.	2018-2019	Solving Noise Problem in Meal Trolley in Hospital Rumah Sakit Bintang Amin, Lampung, Indonesia	Mohd Sapuan Salit and Ahmad Ilyas Rushdan	In negotiation on consultation fee (First report submitted)
4.	2018-2019	The development new handler of <i>Salvadora Persia</i> L. (Kayu Sugi) for commercial use.	Harmaen Safian, Mohd Sapuan Salit	RM 30,000.00
5.	2019	Panel of Jury Creation, Innovation, Technology & Reseach Exposition 2019 (CITREX 2019)	Universiti Pahang, Pahang Malaysia Gambang,	RM300

6.	2018	Panel of Jury, Creation, Innovation, Technology & Research Exposition 2018 (CITREx 2018)	Universiti Malaysia Pahang, Gambang, Pahang	RM 300
7.	2016-2018	External Examiner/ Assessor	Faculty of Engineering, Technology and Built Environment UCSI University, Kuala Lumpur	RM 500
8.	2016-2018	External Examiner	Faculty of Information Sciences and Engineering Management & Science University (MSU), Shah Alam, Selangor	RM 1,500
9.	2016-2019	External Examiner	Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia	RM 4,000
10.	2016	External Examiner	Faculty of Engineering, Universiti Malaysia Sarawak (UNIMAS), Kota Samarahan, Sarawak	RM 2,000
11.	2015-2017	External Assessor	Faculty of Engineering, Technology and Built Environment and Mechanical Engineering UCSI University, Kuala Lumpur	RM 1,000
12.	2015	Peer Reviewer of Research Proposal	National Science Centre, Poland, Poland	RM 500
13.	2014	Judge, International Research, Invention and Innovation Exhibition 2014 (IRIIE 2014)	International Islamic University Malaysia Jalan Gombak, Kuala Lumpur	RM 300
14.	2012	Peer Reviewer of Research Proposal	Christian Doppler Research Association (CDG), Austria	RM 2,500
15.	2012	Judge, IIUM Research, Invention and Innovation Exhibition 2012 (IRIIE 2012)	International Islamic University Malaysia Jalan Gombak, Kuala Lumpur	RM 400
16.	2011	Peer Reviewer of Research Proposal	Qatar National Research Fund, Qatar Foundation	RM 3,000
17.	2009	Program Accreditation	Universiti Kuala Lumpur, Malaysian Spanish Institute (UNIKL MSI), Kulim, Kedah	RM 1,000
18.	2009-2011	External Examiner and Assessor	Institute of Product Design and Manufacturing, Universiti Kuala Lumpur (UniKL IPROM)	RM 4,000
19.	2008-2010	External Academic Examiner for Faculty of Manufacturing Engineering, UTeM	UTeM, Melaka	RM 12,000
20.	2008	Program Accreditation	INTI International University College, Putra Nilai, Nilai, Negeri Sembilan	RM 1,532.40

21.	2008	Program Accreditation	Malaysian University of Science and Technology (MUST), Petaling Jaya	RM 1,650
22.	2006-2008	Development of Engineering Demonstration Tools for School Children using Rapid Prototyping Machine	Pusat Sains Negara	RM 6,000
23.	2006-2008	Energy Transfer Wall	Pusat Sains Negara	RM 6,000
24.	2003	Program Accreditation (Course Approval Assessment)	The University of Nottingham in Malaysia (UNiM), Semenyih, Selangor	RM 400
25.	2003	Program Accreditation	Asian Institute of Medicine, Science and Technology (AIMST), Amanjaya, Sungai Petani, Kedah	RM 1,556
26.	2001	Development of Curriculum for Diploma Program in Industrial and Product Design in IKM	Apex Communications Sdn. Bhd.	RM 4,000
27.	2000	Preliminary Proposal on the Establishment of a Faculty of Engineering at UNITAR	Universiti Tun Abdul Razak (UNITAR)	RM 6,000

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Addin Osman Mohamed Addin (Sudanese)	Bayesian Network Classifiers for Damage Detection in Engineering Materials	Completed
2.	Edi Syams Zainudin (Malaysian)	Effects of Banana Pseudostem Filler and Acrylic Impact Modifier on Thermo-Mechanical Properties of Unplasticized Polyvinyl chloride Composites	Completed
3.	Zulkiflle Leman (Malaysian)	Mechanical Properties of Sugar Palm Fibre Reinforced Epoxy Composites	Completed
4.	Hambali Ariff (Malaysian)	Selection of Conceptual Design using Analytical Hierarchy Process for Automotive Bumper Beam Under Concurrent Engineering Environment	Completed
5.	Al Mabruk S. Mohamed (Libyan)	Development of Technology Transfer Model with Enabling Performance Factors for the Libyan Petroleum Industry.	Completed
6.	Abdalla A. Ab. Rashdi (Libyan)	Moisture Absorption Capacity of Kenaf Fibre-Reinforced Unsaturated Polyester Composites and Its Effect on Their Mechanical Properties	Completed
7.	Mohamed Abd. Rahman (Malaysian) (2011)	Physical, Mechanical and Thermal Properties of Pineapple Leaf Fibre and Pineapple Leaf Fibre Reinforced Vinyl Ester Composites	Completed

8.	Dr Januar Parlaungan Siregar (Indonesian)	Effect of Treatment on Properties of Pineapple Leaf Fibre Reinforced High Impact Polystyrene Composites	Completed
9.	Dr Riza Wirawan (Indonesian)	Thermo-mechanical Properties of Sugar Cane Bagasse-Filled Poly Vinyl Chloride Composites	Completed
10.	Dr Agung Efriyo Hadi (Indonesian)	Characterization and Optimization of Mechanical, Physical and Thermal Properties of Short Abaca (Musa Textilis Nee) Fibre Reinforced High Impact Polystyrene Composites	Completed
11.	Dr Karmegam Karuppiah (Malaysian)	Design and Fabrication of an Ergonomic Back-Leaning Postures Support for Motorbike Riders	Completed
12.	Dr Majid Davoodi Makinejad (Iranian)	Development of Polybutylene Terephthalate Toughened Hybrid Kenaf-Glass Fibre Reinforced Epoxy Composites for Automotive Bumper Beam	Completed
13.	Dr Dandi Bachtiar (Indonesian)	Characterization, Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced High Impact Polystyrene (HIPS) Composites	Completed
14.	Dr Yousuf Ali Gumaan El-Shekeil (Yameni)	Preparation and Characterization of Kenaf Fibre Reinforced Thermoplastic Polyurethane Composites	Completed
15.	Ahmad Baharuddin Abdullah (Malaysian)	Geometric and Dimensional Defect Assessment of Complex Cold Forged Part	Completed
16.	Sahari Japar (Malaysian)	Characterization and Development of Novel Biopolymer and its Biocomposite Derived from Arenga Pinnata	Completed
17.	Basher Ahmed Ali Ahmed (Indian)	Material Selection Using Analytical Hierarchy Process for Polymer Composites in Manufacturing Engineering	Complete
18.	Yusriah Lazim (Malaysian)	Development and Characterization of Betel Nut Husk Fibre-Reinforced Vinyl Ester Composites	Completed
19.	Muhd Ridzuan Mansor (Malaysia)	Concurrent Conceptual Design of Hybrid Natural/Glass Fibre Reinforced Thermoplastic Composites for Automotive Parking Brake Lever	Completed
20.	Mohd Azaman Md Deros (Malaysian)	Injection Moulding Simulation of Wood-Filled Polypropylene Thin-Walled Composite Parts	Completed
21.	Khairul Azhar Mohammad (Malaysian)	Effect of Dwell Period on Fatigue Life of 316L Stainless Steel Tube At High Temperature Under Creep Condition	Completed
22.	Faris Mohammed Khair Faris Al-Oqla (Jordanian)	Enhancement of Evaluation Methodologies for Natural Fiber Composites Material Selection System	Completed
23.	Ridwan Yahaya (Malaysian)	Mechanical and Ballistic Properties of Natural Fibre-Aramid Hybrid Laminated Composites	Completed

24.	Muhammed Lamin Sanyang (Gambian)	Environmentally Friendly Films and Biocomposites from Modified Sugar Palm Starch for Food Packaging	Completed
25.	Mohd Fairuz Abdul Manab (Malaysian)	Mechanical Properties of Pultruded Kenaf Reinforced Vinyl Ester Composite	Completed
26.	Munir Faraj AlMabruk (Libyan) (2016)	Crushing Behaviour of Natural Fiber (Kenaf) Reinforced Hexagonal Composite Tube	Completed
27.	Nadlene Razali (Malaysian)	Development of Hybrid Roselle/Sugar Palm Fibre Thermoset Composites	Completed
28.	Lee Ching Hao (Malaysian) (Jointly awarded degree with University of Sheffield, UK)	Fire Retardant Behaviour of Kenaf Fibre Reinforced Floreon Composite	Completed
29.	Mastura Mohammad Taha (Malaysian)	A New Hybrid Approach for Conceptual Design of Sugar Palm Fibre-Reinforced Polyurethane Composites for Automotive Anti-Roll Bar	Completed
30.	Ahmed Faraj Ibrahim Hissen Edhirej (Libyan)	Characterization and Development of Cassava (Manihot esculenta Crantz) / Sugar Palm (Arenga pinnata (Wurmb) Merr.) Fiber-Reinforced Cassava Starch Hybrid Composites	Completed
31.	Mohd Ridhwan Jumaidin (Malaysia)	Development and Characterization of Seaweed Waste and Sugar Palm Fiber Reinforced Agar/Thermoplastic Sugar Palm Starch Polymer Blend Hybrid Composites	Completed
32.	Mahmood Ali (Malaysian)	Design and Fabrication of Natural Fibre Reinforced Polymer Composite Chair and Table	Completed
33.	Mohamed Mohamed. M.Alkateb (Libyan)	Crushing Behaviour of Natural Fibre Reinforced Elliptical Composite Cones	Completed
34.	Che Suhana Hassan (Malaysian)	Mechanical Properties of Unidirectional Oil Palm Empty Fruit Bunch (OPEFB) Fibre Composite and their Crash Performance for Bumper System Application	Completed
35.	Halimatul Saadiah Muhd Julkapli (Malaysian)	Sugar Palm Filler Reinforced Sago Starch Composites	Ongoing
36.	Mohd Radzi Ali (Malaysian)	Mechanical and Thermal Properties of Polyurethane-Based Composites Reinforced by Sugar Palm and Roselle Fibres	Completed
37.	Noor Azammi Abdul Murat (Malaysian)	Kenaf Filled TPNR Composites for Automotive Engine Rubber Mounting	Completed
38.	Nik Syamsul Bahari Che Yusof (Malaysian)	Conceptual Design of the Sustainability Hybrid Glass-Sugar Palm Fibre Reinforced Polyurethane Composite Automotive Crash Box	Ongoing
39.	Azhar Abdullah (Malaysian)	Characterization of Sugar Palm Fibre Reinforced Epoxy Composites	Ongoing

40.	Noryani (Malaysian)	Muhammad	Materials Selection of Natural Fibre Composites using statistical Methods	Completed
41.	Mohd Shaharuzaman (Malaysian)	Adrinata	Concurrent Conceptual Design of Hybrid Natural/Glass Fiber Reinforced Thermoplastic Composites for Side Door Impact Beam	Ongoing
42.	Mohd Sufian (Malaysian)	Abu Bakar	Effect of Winding Angles and Hybridization on Static and Quasi-Static Crushing Behavior of Kenaf-Fibreglass Hybrid Reinforced Composite Tubes	Ongoing
43.	Nuzaimah (Malaysian)	Mustafa	Development and Characterization of Polyester Composites with Waste Rubber Glove Particles as Fillers	Ongoing
44.	Alaaeddin (Palestine)	Abed	The Utilization of Sugar Palm Fiber Reinforced Polymer Composites in Improving Photovoltaic Applications	Completed
45.	Muhammad Mohd Roslim (Malaysian)	Huzaifah	Properties of Sugar Palm (Arenga Pinnata) Fibre Reinforced Vinyl Ester Composites with Reinforcements Obtained from Different Geographical Location	Completed
46.	Ahmad Ilyas (Malaysian)	Rushdan	Development and Characterization of Sugar Palm Nanocellulose Fibre Reinforced Sugar Palm Starch Biopolymer Composite	Completed
47.	Nor Salwa (Malaysian)	Hamdan	Materials and Design Concept Selection; and Life Cycle Assessment (LCA) of Natural Fibre Reinforced Biopolymer Composite for Food Packaging	Ongoing
48.	Mohammed (Libya)	Ibrahim	Development and Characterization of Corn Stalk Fibre Reinforced Corn Starch Biopolymer Composites	Completed
49.	Mohd Izwan (Malaysian)	Shaharuddin	Performance of Kenaf/Sugar Palm Fibre Reinforced Polypropylene Hybrid Composites for Automotive Non Structural Components	Ongoing
50.	Fathi Masood (Libyan)		Investigation and Optimization of Cutting Parameters of Sugar Palm Fibre Reinforced Unsaturated Polyester Composites by Non-Traditional Cutting Methods	Ongoing
51.	Faisal Shah (Indian)	Sherwani	Development and Characterization of Hybrid and Non Hybrid Laminate Composites of Sugar Palm and Glass Fibre Reinforced Poly Lactic Acid for Motorcycle Parts	Ongoing
52.	Zatil Hazrati (Malaysian)	Kamaruddin	Development and Characterization of Ubi Gadong (Dioscorea Hispada)/Sugar Palm Fibre Reinforced Ubi Gadong (Dioscorea Hispada) Starch Biocomposites	Ongoing
52.	Mohd Azlin (Malaysian)	Mohd Nor	Development and Characterization of Woven Kenaf/Polyester Reinforced Polylactic Acid Composites	Ongoing

53	Hazrol Damiri (Malaysian)	Development and Characterization of Corn/Kenaf Fiber Reinforced Corn Starch Hybrid Composites	Ongoing
54	Abotbina Walid A.M. (Libyan)	Properties of Cassava Bagasse/Clack Seed Fibre Reinforced Corn Starch Biopolymer Composites	Ongoing

PhD (Co-Supervisor)

1.	Assistant Professor Dr Mahmoud Hassan Onsa (Sudanese)	Elastohydrodynamic Analysis of Rolling Line Contact Using Boundary Element Method	Completed
2.	Professor Dr Md. Syed Ali Molla (Bangladeshi)	Intake Valve Modelling of a Four-Stroke I.C. Engine at Idling Speed.	Completed
3.	Dr Lee Wah Peng (Malaysian)	Labour Productivity Measurement Model for Malaysian Housing Industry	Completed
4.	Dr Harimi Mohamed (Algerian)	Theoretical Combustion Analysis in optimizing of Fibre/Shell Ratio for the Oil Mill Boiler	Completed
5.	Dr Kassim Ali Abbas Al Hadeethy (Iraqi)	A Heat and Mass Transfer Study of Fresh Water Pangasius Sutchi in Cold Storage	Completed
6.	Dr Muthu Suresh Devanesan Jacob (Indian)	Fretting fatigue characterization of 7075-T6, Ti-6-Al-4v and Bs-L65 Aerospace Aluminium Alloys and Its Components and Its Application in Aerospace Industry	Completed
7.	Dr Saad A. Mutasher (Iraqi)	Mechanical Performance of a Hybrid Aluminium/Composite Drive Shaft	Completed
8.	Dr Mohd Khairun Anwar Uyup (Malaysian)	Modification of Bamboo with Phenolic-Resin for the Production of Dimensionally Stable Plybamboo	Completed
9.	Dr Abdalla F. Hamed (Libyan)	Experimental and Finite Element Analysis of the Pressure Carrying Capacity of Reinforced Composite Thick-Walled Material Tubes	Completed
10.	Dr Mohamad Zaihirain Mohamed Rasin (Malaysian)	Development of Manufacturing Cost Estimation Models For Early Order Stage	Completed
11.	Dr Ali Jahan (Iranian)	Development of a New Methodology for Materials Selection According to Multi-Criteria Decision Making Methods	Completed
12.	Dr Ali Shahrjerdi (Iranian)	Functionally graded materials and static/dynamic relations	Completed
13.	Dr Isuwa Sulaiman Aji (Nigerian)	Mechanical and Thermal Characterization of Hybridized Short Kenaf-Pineapple Leaf Fibre Reinforced High Density Polyethylene Composites	Completed
14.	Dr Asghar Pishgahi (Iranian)	Flow and Thermal Characteristics of Tangential Air Jet in a Sudden Expansion Channel	Completed

15.	Dr Mohamad Ridzwan Ishak (Malaysian)	Enhancement of the Properties of Sugar Palm (Arenga Pinnata) Fibre Reinforced Unsaturated Polyester Composites Via Impregnation of Phenol Formaldehyde	Completed
16.	Dr Suriani Mat Jusoh (Malaysian)	Modeling of Fatigue Life of Kenaf/Epoxy Composites by using Thermal Imaging Technique	Completed
17.	Mehran Masoudi (Iranian)	Synthesis and Characterization of Ni-Al ₂ O ₃ -Cr, Ni-Al ₂ O ₃ -SiC and Ni-SiC-Cr Nano Hybrid Composites	Completed
18.	Nanang Fatchurrohman (Indonesian)	Manufacturing Process and Material using Modified Multi Criteria Decision Making for Brake Disc	Completed
19.	Hassan Zareei (Iranian)	Development of a Family Product Usability Model for Older Malaysians	Completed
20.	Mohd Uzair Mohd Rosli (Malaysian)	Value Added Engineering for Automotive Parts	Completed
21.	Yadollah Gharayebi (Iranian)	Preparation, Characterization and Thermal Degradation of Polyimide(4-Aminophenyl Sulfone/3,3', 4,4' – Benzophenonetecarboxylic Dianhydride) Nanocomposite with SiO ₂ , Ag, and Montmorillonite Nanofillers	Completed
22.	Khairul Dahri Mat Aris (Malaysian)	Structural Health Monitoring (SHM) of Composite Patch Repair for Aircraft Part and Structures using Principal Component Analysis	Completed
23.	Nisreen N. Ali Al-Adnani (Iraqi)	Structural Health Monitoring and Damage Detection for Composite Panel Structures via Statistical Analysis	Completed
24.	Ali Mohamed Wahhad (Libyan)	Development of Optimum Window Size in Tropical Climate Using Computational Fluid Dynamics and Experimental Works	Completed
25.	Sairizal Misri (Malaysian)	Mechanical Properties of Kenaf Fibre Reinforced Composites using Filament Winding Method	Completed
26.	Nawras Haidar Mostafa Al-Said Haidar (Iraqi)	Effect of Pre-Tension on the Static and Fatigue Performance of Woven Composite Materials	Completed
27.	Hammajam A. Abba (Nigerian)	Characterization of Millet-Husk Filled High Density Polyethylene and Polylactic Acid Composites	Completed
28.	Adnan Abbas Abdulnabi (Iraqi)	Effects of Particle Size and Weight Percentage of Waste Rubber Crumbs on the Performance of Compounded Tyres	Completed
29.	Atiqah Mohd Afdzaluddin (Malaysian)	Properties of Sugar Palm/Glass Fibre-Reinforced Thermoplastic Polyurethane Composites	Completed

30.	Mohd Nurazzi Norizan (Malaysian)	Development of Sugar Palm Yarn and Woven Glass Fibre-Reinforced Unsaturated Polyester Composites	Completed
31.	Chandrasekar Muthukumar (India)	Effect of Various Treatments on Mechanical Properties of Hybrid Fibre Metal Laminates	Completed
32.	Wan Mohamad Haniffah Wan Hussin (Malaysian)	Effect of Fibre Heat Treatment on Mechanical and Hygroscopic Properties of Kenaf Polypropylene Composite	Completed
33.	Ramengmawii Siakeng (Indian)	Nonwoven Kenaf/Coir Fibre Reinforced PLA Biodegradable Hybrid Composites.	Completed
34.	Abdul Azim Abdul Rahman	Glass Filled Nylon Composites for Global Product Engineering	Completed
35.	Aisyah Humaira binti Alias (Malaysian)	The Assessment of Woven Kenaf Materials for Laminated Composite Product	Completed
36.	Sujith Bobba (Indian)	Repair of Damaged Fiber Reinforced Pipes by Pressure Impact Using S-2 Glass Composite Patches Externally	Completed
37.	Huong Pei Zam (Malaysian)	Development of Humidity Control Material Prepared from Porous Materials and Waste Glass	On-going
38.	Sity Ainy Nor Mohamed (Malaysian)	Characterization of Fatigue Crack Propagation of Rice Husk Polypropylene Composites under Constant Amplitude Loading	On-going
39.	Nuruldiyanah Kamarudin (Malaysian)	Preparation of Environmentally Sustainable Phenolic Bioresins for Bio-Composite Applications	On-going
40.	Saleh Naji Musaed Alsubari (Yemen)	Qualisi-Static and Fire Properties of Flax/Poly Lactic(acid) (PLA) Sandwich Composites	On-going
41.	Sharaf Hussein Kadhim Sharaf (Iraqi)	Study of Creep Behavior of the Cross Arm of the Transformation Towers	On-going
42.	Rahimian Kolor Seyed Saeid (Iranian)	Damage Mechanics of Curved Fibre Reinforced Polymer Composite Structures for Aerospace Applications	On-going
43.	Muhammad Muhammad Asyraf Rizal (Malaysian)	Development of Creep Test Rigs for Composite Cross Arm in Transmission Line Tower	On-going
44.	Vikneswaran Mariappan (Malaysian)	Abrasion and Erosive Wear Analysis of Liner Plate from Solid Coal Impact on Chute in Coal Fired Power	On-going
45.	Muhammad Hafiz Kamarudin (Malaysian)	Fundamental Study on Direct Recycling of rHDPE in Concrete Structures	On-going
46.	Mohammad Azad Alam (Indian)	Synthesis and Investigation of AA7075 Hybrid Composites for Aircraft Application	On-going

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Edi Syams Zainudin (Malaysian) (2002)	Fibre Orientation of Short Fibre Reinforced Injection-Moulded Thermoplastic Composites.	Completed
2.	Muthu Suresh Devanesan Jacob (Indian)	A Prototype Knowledge-Based System for Material Selection of Ceramic-Matrix-Composite for Automotive Engine Components.	Completed
3.	Mohd Nizam Suddin (Malaysian)	Design of Polymer Based Composite Automotive Bumper Fascia.	Completed
4.	Lee Ho Boon (Malaysian)	Comparison of Cost, Surface Roughness and Time using Stereo-lithography and 3D Printer for Design of Composite Pedal.	Completed
5.	Mohd Noor Arib Md Rejab (Malaysian)	Mechanical Properties of Pineapple Fibre Reinforced Polypropylene Composites	Completed
6.	Sharifah Imihezri Syed Shaharuddin (Malaysian)	Design, Analysis and Fabrication of Fiber Reinforced PA 6,6 Composite Automotive Clutch Pedal	Completed
7.	Nik Mohd Zuki Nik Mohamed (Malaysian)	Strategic Method to Reduce Development Time for New Model in Automotive Industry	Completed
8.	Amirruddin Abdul Kadir (Malaysian)	Design, Analysis and Fabrication of Aluminium and Composite Hovercraft Prototype Hull Base	Completed
9.	Majid Davoodi Makinejad (Iranian)	Development of Fibre Reinforced Epoxy Composite Absorber for Automotive Bumper System	Completed
10.	Dandi (Indonesian) Bachtiar	Mechanical Properties of Alkali-treated Sugar Palm (Arenga Pinnata) Fibre Reinforced Epoxy Composites	Completed
11.	Khairul Azmi Md Rezali (Malaysian)	Mechanical Properties of Untreated and Alkaline Treated-kenaf and Ramie-Fabric Reinforced Epoxy Composites	Completed
12.	Mohd Zuhri Muhamed Yusoff (Malaysian)	Mechanical Properties of Oil Palm Fibre-Thermoset Composites	Completed
13.	Sahari Japar (Malaysian)	Physio-Chemical and Mechanical Properties of Different Morphological Parts of Sugar Palm Fibre Reinforced Polyester Composites	Completed

14.	Mohd Fairuz Abd Manab (Malaysian)	Development of Expert System for Material Selection of Polymer Based Composites	Completed
15.	Wan Mohamad Haniffah Wan Hussin (Malaysian)	Effect of Repeated Water and Domestic Bleach Immersion on Liquid Content and Tensile Properties of Kenaf Fibre Reinforced Polypropylene Composites	Completed
16.	Mohd Sukri Ibrahim (Malaysian)	Thermomechanical Properties of Oil Palm Particle Ash Filled Polyester Composites.	Completed
17.	Nur Atirah Mohd Aridi (Malaysia)	Mechanical Properties of Rice Husk Filled Polypropylene Composites	Completed
18.	Nur Marliana Mohamad (Malaysia)	Comparison of Mechanical Properties of Pultruded Glass Fibre, Kenaf Fibre Reinforced Composites	Completed
19.	Muhammad Ammar Ishak (Malaysian)	Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites with Different Arrangements of Reinforcement	Completed
20.	Mohamad Omar Shafiq Razali (Malaysian)	Development and Characterization of Sugar Palm Starch-Nanocellulose Antimicrobial Films Incorporated with Plants Essential Oil	Ongoing
21.	Nazrin Norarief Mardhi Aswadi (Malaysian)	Development and Characterization of Thermoplastic Starch From Sugar Palm Fiber Nanocellulose and Sugar Palm Starch and Their Blends with Poly(Lactic Acid)	Ongoing
22.	Tarique Jamal (India)	Properties of Arrowroot Fibre Reinforced Arrowroot Starch Biopolymer Composites	Ongoing

MS with thesis (Co-Supervisor)

1.	Dr Harimi Mohamed (Algerian)	Development of Computer Program to Analyse Chemical Products Resulted from Incineration of Solid Fuels	Completed
2.	Abdul Hafid M. Elfaghi (Libyan)	Simulation of Turbine Blade Heat Transfer using Different Turbulent Models	Completed
3.	Dr Mohamad Awang (Malaysian)	Application of Quality Function Deployment (QFD) in a Locally Produced Knapsack Sprayer	Completed
4.	Zulkifli Yaakob (Malaysian)	Improvements in Design of Local Fluorescent Electronic Ballasts in Compliant to Related Local and International Standards	Completed
5.	Dr Mohamad Zahirain Mohamed Rasin (Malaysian)	Development of a Prototype Scheduling and Sequencing Software for Jobshop Manufacturing in Sheet Metal Fabrication	Completed
6.	Lim Jee Gin (Malaysian)	Evaluation of Industrialized Building System	Completed
7.	Amir Ihsan Abdul Salam (Malaysian)	Techno-Economical Aspects of Thermal Energy Storage Integrated District Cooling System	Completed

8.	Eris Elianddy Haji Supeni (Malaysian)	Heating Value Evaluation for Palm Oil Boiler Fuel	Completed
9.	Munir Faraj M. Alkbir (Libyan)	Energy Absorption capability of composite hexagonal tubes	Completed
10.	Sivakumar Dhar Malingam (Malaysian)	Application of Focus Improvement to Reduce Non Stick on Pad Problem in IC Packaging	Completed
11.	Abdul Malek Ya'acob (Malaysian)	Effect of Fibre Orientation of Tensile Properties of Short Glass Fibre Reinforced Injection-Moulding Polypropylene Composites	Completed
12.	Januar Parlaungan Siregar (Indonesian)	Tensile and Flexural Properties of Arenga Pinnata Filament Reinforced Epoxy Composites	Completed
13.	Tariq Ramadan Abo-Alhol (Libyan)	Study of the Effectiveness of Quality Control Circles	Completed
14.	Lai Chin Yung (Malaysian)	Mechanical Properties and Dielectric Constant of Coconut Coir-Filled Propylene	Completed
15.	Mohammad Iqmal Mohd Ali (Malaysian)	Optimization of Drilling Process of Aircraft Composite Structure Using Design of Experiment	Completed
16.	Saleem Na'mi (Germany)	Finite Element Analysis of Hydraulic Bulging for Metal Tubes.	Completed
17.	Suriani Mat Jusoh (Malaysian)	A Case Study on Tensile Properties and Morphology of Arenga Pinnata Fiber Reinforced Epoxy Composites	Completed
18.	Amir Azizi (Iranian)	Ranking of Total Quality Management's Critical Techniques in Automotive Industry	Completed
19.	Zulkifli (Indonesian)	Mechanical properties of wood composites	Completed
20.	Cheong Yoon Kwan (Malaysian)	Numerical Simulation of NO and CO Abatement in Catalytic Converter of CNG Engine	Completed
21.	Azali Awaluddin (Malaysian)	Design and Development of Oil Palm Fluidized Bed Gasifier	Completed
22.	Norhisham Seyajah (Malaysian)	Composite with Saw Dust and Chip Wood in an Epoxy Matrix for Furniture Industry	Completed
23.	Ali Mohamed Wahhad (Libyan)	Effect of Selected Laminating Materials on Temperature Distribution in an Office	Completed
24.	Mohamad Ridzwan Ishak (Malaysian)	Mechanical Properties of Woven Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Completed
25.	Zainb Shaker Radif (Iraqi)	Development of a Combat Armour from Ramie Fibre	Completed
26.	Hafizal Abu Bakar (Malaysian)	Development of an External Balance Device of Calibration and Validation for Wind Tunnel Testing	Completed
27.	Sairizal Misri (Malaysian)	Design and Fabrication of Small Boat by Using Sugar Palm Fibre Reinforced Epoxy Composites	Completed

28.	Mohd Yusoff Salleh (Malaysian)	Mechanical Properties of Sandwich Hybrid Sugar Palm Fibre/Glass Fibre Reinforced Unsaturated Polyester Composites	Completed
29.	Umar Abdul Hanan (Malaysian)	Accelerated Weathering of Kenaf High Density Polyethylene (HDPE) composite for Outdoor Application	Completed
30.	Nor Hanifawati Inai (Malaysian)	Mechanical and Physical Properties of Hybrid Banana Pseudostem/Glass Fibre Reinforced Polyester Composites	Completed
31.	Abu Hatim Ibrahim (Malaysian)	Effects of Flame-Retardant Agents on Mechanical Properties and Flammability of Impregnated Sugar Palm Fibre-Reinforced Polymer Composites	Completed
32.	Hammajam Alhaji Abba (Nigeria)	Mechanical Properties of Millet (Pennisetum Glaucum [Linn.]) Husk Filled High Density Polyethylene Composites	Completed
33.	Buthainah Ali Abed (Iraqi)	Studying Effecting of Absorption/Desorption Gasoline on the Nanocomposites (Polypropylene-Polycarbonate)	Completed
34.	Rao Muhammad Shahroze Ali (Pakistani),	Effect of Nanoclay and Silica Aerogel on Mechanical, Thermal and Physical Properties of Sugar Palm Fiber Reinforced Unsaturated Polyester Composites	Completed
35.	Pang Jing Shen (Malaysian)	Machinability and Surface Morphology of Halloysite Nanotube (HNT)- Aluminium/Epoxy Composite Board for Rapid Tooling Applications	Completed
36.	Rozilah Abdullah (Malaysian)	Anti-Bacterial Properties of Nanocellulose Fibre Reinforced Sugar Palm Starch Biocomposites	Ongoing
37.	Nur Amani Abdullah (Malaysian)	Toughened Natural Hydroxyapatite (NHA) with Zirconia for Biomedical Applications	
38.	Nur Diyana Ahmad Fazil (Malaysian)	Characterization and Properties of Miswak Fiber Reinforced Polylactic Acid (PLA) Composites	

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Mohd Shafiroli Mohammad Othman (Malaysian)	Failure Prediction using Fault Tree Analysis in Electrical and Electronic Appliances	Completed
2.	Mohd Maliki Abdul Ghani (Malaysian)	Cost Analysis of Thermal Energy Storage of Science and Technology Complex UiTM Shah Alam	Completed
3.	Wan Mohd Sufian Wan Husain (Malaysian)	Cost Consideration of Natural Fibre Composites	Completed
4.	Mohd Yuza Hj. Mohd Yusof (Malaysian)	The Limitation of Vehicle Packaging Development	Completed

5.	Mustofa Ibrahim Sheikh (Somali),	Design of sustainable manufacturing systems: for grains sachets in Somaliland. Started 2016.	Completed
6.	Adila Ahmad Nazri (Malaysian)	Productivity Improvement in CAD Documentation of Antenna and Microwave Communication System	Completed
7.	Hazrol Damiri	Electrical Properties of Sugar Palm Nanocellulose Fibre Reinforced Sugar Palm Starch Biopolymer Composites	Ongoing
8.	Nurul Maisara Misman	The Effect of Fibre Length on Mechanical Properties of Random Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Ongoing
9.	Aulia Hylaea Sarah (Indonesian)	Characterization of Basalt-Glass Fibre Reinforced Unsaturated Polyester Hybrid Composites	
10.	Hemapriya a/p Genesan (Malaysian)	Natural Fibre Composite Product Development	
11.	Sarwin Kumar (Malaysian)	Mechanical Properties of Sugar Palm PLA Composites	
12.	Muhammad Arif Fahmi B. Abdul Wahab (Malaysian)	Conceptual Design of Hybrid Composite Motorcycle Components	
13.	Ndi Akum Delphine (Nigerian)	Preparation and Characterization of Sugar Palm Fibre Reinforced Arrowroot (Maranta arundinacea) Starch Biopolymer Composites	
14.	Amin Mahmoud Amin Shareedeh (Jordanian)	A Design of Natural Toothbrush (Miswak) Holder with Water Absorption System	