

CURRICULUM VITAE



Prof. Ir Dr Mohd Sapuan bin Salit
Department of Mechanical and Manufacturing Engineering,
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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. Research Associate, Biocomposite Technology Laboratory, Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	1 September 2017 – 31 August 2019



2. Research Advisor, Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Product (INTROP), Universiti Putra Malaysia September 2017 – September 2019
 3. 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
 4. 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
 5. 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
 6. Principal Researcher, Aerospace Manufacturing Innovation Research Centre (AMRC), Faculty of Engineering, UPM 1 July 2014-30 June 2017
 7. Visiting Professor, Aligarh Muslim University, Aligarh, Uttar Pradesh, India Feb 2014- March 2014
 8. Visiting Professor (Sabbatical leave), Centre of Manufacturing Integration, Faculty of Engineering, Universiti Malaya, Kuala Lumpur 1 Oct 2013- 30 Jun 2014
 9. 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
 10. Head, Engineering Composites Research Group, Faculty of Engineering, UPM 2009- now
 11. Research Advisor, Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Product (INTROP), Universiti Putra Malaysia February 2013 – 31 Januari 2015
 12. Research Associate, Aerospace Manufacturing Research Centre (AMRC), Faculty of Engineering, UPM 30 November 2012 – 2014
 13. Visiting Professor, Universitas Malahayati, Bandar Lampung, Indonesia 10 -15 December 2012
 14. Head, Postgraduate Program in Advanced Composite Materials, Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia 1 February 2012 – 31 January 2014
 15. 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
 16. Research Associate, Materials Technology and Processing Laboratory, Institute of Advanced Technology, UPM 7 August 2012 – 6 August 2015
 17. Research Associate, Laboratory of Advanced Materials and Nanotechnology, Institute of Advanced Technology, UPM 1 May 2011-1 May 2013
 18. Visiting Professor, Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka 1 May 2011 – 30 April 2013
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19. Research Coordinator, Department of Mechanical and Manufacturing Engineering, UPM 7 March 2011 – 31 Dec 2013
 20. Research Associate, Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) UPM 1 June 2010 – 30 July 2014
 21. Head of Program (Structural Composites), Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA) UPM 1 September 2009 – 6 August 2012
 22. Head (Appointed by Vice Chancellor, UPM), Department of Mechanical and Manufacturing Engineering, UPM 1 August 2008 – 6 February 2011
 23. Research Associate, Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA) UPM 1 September 2009-31 August 2010
 24. Research Coordinator, Department of Mechanical and Manufacturing Engineering, UPM 1 July 2008 – 31 July 2008
 25. Head of Program, Advanced Composite Materials, Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA), UPM 1 June 2008 – 31 August 2009
 26. Head, Field of Study with Thesis (Materials Engineering), Department of Mechanical and Manufacturing Engineering, UPM 1 August 2007-31 July 2009
 27. Head, Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM 1 July 2007-31 December 2018
 28. Head, Research Area (Materials Engineering) of Research Area (Materials Engineering), Department of Mechanical and Manufacturing Engineering, UPM 1 July 2007-31 December 2008
 29. Visiting Academic, (Sabbatical Leave), School of Engineering, Design and Technology, University of Bradford, Bradford, BD7 1DP, UK 1 May 2007 – 31 January 2008
 30. Professor of Composite Materials (C Grade (JUSA C – VK7), Department of Mechanical and Manufacturing Engineering, UPM 1 May 2007 – September 2011
 31. Coordinator, Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM 1 December 2006-31 July 2007
 32. Associate Professor, Department of Mechanical and Manufacturing Engineering, UPM 1 July 2002 – 30 April 2007
 33. Research Associate, Advanced Materials Laboratory Institute of Advanced Technology (ITMA), Universiti Putra Malaysia 1 Sept. 2001 – 1 Sep 2006
 34. Visiting Lecturer, (Sabbatical Leave), Department of Engineering Design and Manufacture, Universiti Malaya, Kuala Lumpur, Malaysia 1 Dec. 2001 – 30 May 2002
 35. Head (Appointed by Vice Chancellor, UPM), Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM 15 Feb. 2001 – 31 Aug.2001
 36. Acting Head, Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM 3 Nov 2000 – 31 December 2000
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37. Lecturer, (Founder Staff), Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM, (Dual appointment) 1 Dec. 1999- 14 Feb. 2001
38. Coordinator of Final Year Project, Dept. of Mechanical and Manufacturing Engineering, UPM Nov.1998-April 2000
39. Lecturer, Department of Mechanical and Manufacturing Engineering, UPM 18 June 1998 – 30 June 2002
40. Tutor, Department of Mechanical and Manufacturing Engineering, UPM 1996 – 17 Jun 1998
41. Tutor, Department of Mechanical and Systems Engineering, UPM 4 Oct. 1994 – 1996
42. 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
43. Tutor, Department of Chemical Engineering, Universiti Malaya 2 Feb 1993-31 May 1993
44. Research Assistant, Department of Chemical Engineering, Universiti Malaya 17 August 1990 – 31 Jan 1993

Publications

Journals (30 recent journals in Q1)

1. R.A. Ilyas, **S.M. Sapuan**, M.R. Ishak and E.S. Zainudin, Development and characterization of sugar palm nanocrystalline cellulose reinforced sugar palm starch bionanocomposites, Carbohydrate Polymers, 202, pp. 186-202, 15 December 2018 (Impact factor = 5.158) (Q1).
2. R.A. Ilyas, **S.M. Sapuan** and M.R. Ishak, Isolation and characterization of nanocrystalline cellulose from sugar palm fibres (Arenga Pinnata), Carbohydrate Polymers, 181, pp. 1038-1051, February 2018, (Impact factor = 5.158) (Q1).
3. A.Atiqah, M. Jawaid, **S. M. Sapuan**, M. R. Ishak, and O.Y. Allothman, Thermal properties of sugar palm/glass fiber reinforced thermoplastic polyurethane hybrid composites, Composite Structures, 202, pp. 954-958, 15 October 2018 (Impact factor = 4.101) (Q1).
4. M. Noryani, **S. M. Sapuan**, M. T. Mastura, M. Y. M. Zuhri, and E. S. Zainudin, A statistical framework for selecting natural fibre reinforced polymer composites based on regression model, Fibers and Polymers 19, no. 5, pp. 1039-1049, 2018, (Impact factor = 1.353) (Q1).
5. A. M. Noor Azammi, **S. M. Sapuan**, M. R. Ishak, and M. T. H. Sultan, Mechanical and Thermal Properties of Kenaf Reinforced Thermoplastic Polyurethane (TPU)-Natural Rubber (NR) Composites, Fibers and Polymers 19, no. 2, pp. 446-451, 2018, (Impact factor = 1.353) (Q1).
6. M.T. Mastura, **S.M. Sapuan**, M.R. Mansor and A.A. Nuraini, Materials selection of thermoplastic matrices for 'green' natural fibre composites for automotive anti-roll bar with particular emphasis on the environment, International Journal of Precision Engineering and Manufacturing-Green Technology, 5, no.1, pp. 111-119,2018, (Impact factor = 3.494) (Q1).
7. Mochamad Asrofi, Hairul Abral, Yogi Kurnia Putra, **S.M Sapuan** and Hyun-Joong Kim, Effect of duration of sonication during gelatinization on properties of tapioca starch water hyacinth fiber biocomposite, International Journal of Biological Macromolecules, 108, pp. 167-176, March 2018 (Impact factor = 3.138) (Q1).
8. A. M. Radzi, **S. M. Sapuan**, M. Jawaid and MR. Mansor, Influence of fibre contents on mechanical and thermal properties of roselle fibre reinforced polyurethane composites, Fibers and Polymers, 18, no.7, pp. 1353-1358, 2017 (Impact factor = 1.113) (Q1).
9. M. Alkateb, **S. M. Sapuan**, Z. Leman, Mohammad Jawaid, and M. R. Ishak, Energy absorption capacities of kenaf fibre-reinforced epoxy composite elliptical cones with circumferential holes, Fibers and Polymers, 18, no. 6, pp. 1187-1192, 2017 (Impact factor = 1.113), (Q1).
10. R. Jumaidin, **S. M. Sapuan**, M. Jawaid, M. R. Ishak and J. Sahari, Characteristics of Eucheuma cottonii waste from East Malaysia: physical, thermal, and chemical composition, European Journal of Phycology. 52, no. 2, pp. 200-207, 2017 (Impact factor = 2.205) (Q1).



11. A. Edhirej, **S.M. Sapuan**, Mohammad Jawaid, Nur Ismarrubie Zahari, Cassava/sugar palm fiber reinforced cassava starch hybrid composites: Physical, thermal and structural properties, *International Journal of Biological Macromolecules*, 101, August 2017, 75–83, (Impact factor = 3.138) (Q1).
12. R. Jumaidin, **S.M. Sapuan**, M. Jawaid, M.R. Ishak and J. Sahari, Effect of seaweed on mechanical, thermal, and biodegradation properties of thermoplastic sugar palm starch/agar composites, *International Journal of Biological Macromolecules*, 99, June 2017, pp. 265-273, (Impact factor = 3.138) (Q1).
13. M.L. Sanyang, M. Yokasunderi, **S.M. Sapuan**, and J. Sahari, Tea tree (*Melaleuca altemifolia*) fiber as novel reinforcement material for sugar palm biopolymer based composite films, *BioResources*, 12, no. 2, pp.3751-3765, 2017 (impact factor = 1.334) (Q1).
14. R. Jumaidin, **S.M. Sapuan**, M. Jawaid, M. R. Ishak and J. Sahari, Thermal, mechanical, and physical properties of seaweed/sugar palm fibre reinforced thermoplastic sugar palm starch/agar hybrid composites, *International Journal of Biological Macromolecules*, 97, pp. 606–615, April 2017 (Impact factor = 3.138) (Q1).
15. H. Nawras Mostafa, Z.N. Ismarrubie, **S.M. Sapuan** and M.T.H. Sultan, Fibre prestressed composites: Theoretical and numerical modelling of unidirectional and plain-weave fibre reinforcement forms, *Composite Structures*, 159, pp. 410 – 423, January 2017. (Impact factor = 3.318) (Q1).
16. R. Nadlene, **S.M. Sapuan**, M. Jawaid, M.R. Ishak and L. Yusriah, Mechanical and thermal properties of roselle fiber reinforced vinyl ester composites, *BioResources*, 11, no. 4, pp. 9325-9339, 2016 (Impact factor = 1.334), (Q1).
17. R. Jumaidin, **S.M. Sapuan**, M. Jawaid, M.R. Ishak and J. Sahari, Characteristics of thermoplastic sugar palm starch/agar blend: Thermal, tensile, and physical properties, *International Journal of Biological Macromolecules*, 89, August 2016, pp. 575–581 (Impact factor = 3.138) (Q1).
18. M.L. Sanyang, **S.M. Sapuan**, M. Jawaid, M. R. Ishak and J. Sahari, Development and characterization of sugar palm starch and poly(lactic acid) bilayer films, *Carbohydrate Polymers*, 146, August 2016, pp. 36-45 (Impact factor = 4.074) (Q1).
19. M. F. Alkbir, **S.M. Sapuan**, A.A. Nuraini and M.R. Ishak, Effect of crashworthiness parameters in natural fibre-reinforced polymer composite tubes: A literature review, *Composite Structures*.148, July 2016, pp.59-73 (Impact factor = 3.318) (Q1).
20. M.L. Sanyang, **S.M. Sapuan**, M. Jawaid, M. R. Ishak and J. Sahari, Effect of sugar palm-derived cellulose reinforcement on the mechanical and water barrier properties of sugar palm starch of biocomposite films. *BioResources*, 11, no. 4134-4145, 2016 (Impact factor = 1.425) (Q1).
21. M. L. Sanyang, **S. M. Sapuan**, M. Jawaid, M. R. Ishak and J. Sahari, Effect of plasticizer type and concentration on physical properties of biodegradable films based on sugar palm (*arenga pinnata*) starch for food packaging, *Journal Food Science and Technology*, 53, no.1, pp. 326–336, January 2016 (Impact factor = 2.203) (Q1).
22. H.M. Nawras, Z.N. Ismarrubie, **S.M. Sapuan** and M.T.H. Sultan, Effect of fabric biaxial prestress on the fatigue of woven E-glass/polyester composites, *Materials and Design*, 92, 15 February 2016, pp. 579-589 (Impact factor = 3.501) (Q1).
23. M.L. Sanyang, **S.M. Sapuan**, M. Jawaid, M.R. Ishak and J. Sahari, Recent developments in sugar palm (*Arenga Pinnata*) based biocomposites and their potential industrial applications: A review, *Renewable & Sustainable Energy Reviews*, 54, February 2016, pp. 533-549 (Impact factor = 5.901) (Q1).
24. M. L. Sanyang and **S. M. Sapuan**, Development of expert system for biobased polymer material selection: food packaging application, *Journal of Food Science and Technology*, 52, no. 10, pp. 6445–6454, 2015 (Impact factor = 2.203), (Q1).
25. F. M. AL-Oqla and **S.M. Sapuan**, Polymer selection approach for commonly and uncommonly used natural fibers under uncertainty environments, *JOM*, 67, no. 10, 2450-2463, 2015 (Impact factor = 1.757) (Q1).
26. B.A. Ahmed Ali, **S.M. Sapuan**, E.S. Zainudin and M.Othman, Implementation of expert decision system for environmental assessment in composite material selection, *Journal of Cleaner Production*., 107, 16 November 2015, pp. 557-567 (Impact factor = 3.844) (Q1).
27. M.L. Sanyang, **S.M. Sapuan**, M. Jawaid, M.R. Ishak and J. Sahari, Effect of plasticizer type and Concentration on Tensile, Thermal and Barrier Properties of Biodegradable Films based on sugar Palm (*Arenga pinnata*) starch, *Polymers*, 7, no.6, pp. 1106-1124, 2015 (Impact factor = 3.681) (Q1).
28. F.M. Al-Oqla, **S.M. Sapuan**, M.R. Ishak and A.A. Nuraini, Predicting the potential of agro waste fibers for sustainable automotive industry using a decision making model, *Computers and Electronics in Agriculture*, 113, pp. 116-127, April 2015 (Impact factor = 1.486) (Q1)

29. R. Yahaya, **S.M. Sapuan**, M. Jawaid, Z. Leman, and E.S. Zainudin, Effect of layering sequence and chemical treatment on the mechanical properties of woven kenaf–aramid hybrid laminated composites, *Materials & Design*, 67, pp. 173-179, February 2015 (Impact factor = 3.171) (Q1).
30. S. Misri, **S.M. Sapuan**, Z. Leman and M.R. Ishak, Torsional behaviour of filament wound kenaf yarn fibre reinforced unsaturated polyester composite hollow shafts, *Materials and Design*, 65, pp. 953–960, January 2015 (Impact factor = 3.171) (Q1).

Conference Proceedings (30 recent Conference Proceedings)

1. **S.M. Sapuan**, (KEYNOTE ADDRESS), Natural fibre composites: Malaysian perspective, Proceedings of the International Polymer Conference of Thailand (PCT-8), 14th -15th June 2018, Amari Watergate Hotel, Bangkok, Thailand, pp. 12, Organized by Polymer Society of Thailand.
2. **S.M. Sapuan**, (KEYNOTE ADDRESS) Sharing experiences in writing article for international journals for beginners, Presented at the Seminar of Writing Scientific Articles for Lecturers and Students, 25th -26th January 2018, Indonesian College of Management, Informatics and Computer (STMIK Indonesia), Padang, West Sumatera, Indonesia.
3. **S.M. Sapuan** (KEYNOTE ADDRESS), The importance of high impact publication and the impact of research on the society, Presented at IEEE International Conference on System Modelling Advancement and Research Trends (SMART-2017), 29th-30th December 2017, Teerthanker Mahaveer University (TMU), Moradabad, Uttar Pradesh, India.
4. **S.M. Sapuan** and M. L. Sanyang (KEYNOTE ADDRESS), Recycling of natural fiber composite materials, Proceedings of the 1st Conference on Engineering, Technology and Education 2016 (CETEd2016), 4-5 October 2016, Politek Merlimau, Merlimau, Melaka, Malaysia, pp. 1-5 (ISBN 978-967-0189-76-5).
5. **S.M. Sapuan** (PLENARY LECTURE), Engineering applications of natural fibre composites, Proceedings of International Conference on Science, Engineering and Innovative Technology (MICSEIT2016), 10-11 August 2016, MSU, Shah Alam, Selangor, Malaysia, p. 13. & 21.
6. **S.M. Sapuan** (KEYNOTE ADDRESS), Recent development in sugar palm fibre reinforced composite research, Presented at International Seminar on Strategy to Build Competitiveness in ASEAN Economic Community Era (SBC-MEA), 30-31 March 2016, Universitas Abulyatama, Banda Aceh, Indonesia.
7. **S.M. Sapuan** (KEYNOTE ADDRESS), Pembangunan produk kejuruteraan berasaskan pokok enau (sugar palm), Presented during Pelancaran Program Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau (Sugar Palm), 22 November 2015, Kampung Kuala Jempol, Bahau, Negeri Sembilan, Malaysia.
8. **S.M. Sapuan** (PLENARY LECTURE), Conceptual design of products from environmentally friendly biocomposite materials, Presented at the 13th International Conference on environment, Ecosystems and Development (EED15), 23-25 April 2015, Renaissance Kuala Lumpur Hotel, Kuala Lumpur, Malaysia.
9. H. Anuar and **S.M. Sapuan**, (KEYNOTE ADDRESS), Prospect of durian skin fibre and its composites, Proceedings of the Postgraduate Symposium on Composites Science Technology 2014 & 4th Postgraduate Seminar on Natural Fibre Composites 2014, 28 January 2014, Palm Garden Hotel, IOI Resort, Putrajaya, Malaysia, pp. 1-5 (ISBN 978-983-2408-15-4).
10. Y.A. El-Shekeil and **S.M. Sapuan**, (KEYNOTE ADDRESS), Natural fibre reinforced thermoplastic polyurethane composites: A review, Proceedings of the Postgraduate Symposium on Composites Science Technology 2014 & 4th Postgraduate Seminar on Natural Fibre Composites 2014, 28 January 2014, Palm Garden Hotel, IOI Resort, Putrajaya, Malaysia, pp. 6-12 (ISBN 978-983-2408-15-4).
11. **S.M. Sapuan**, F.L. Pua and Y.A. El-Shekeil, An overview on the potential of Biodegradable composite in Malaysia, (KEYNOTE ADDRESS), Proceedings of the 2ND. UPM-UniKL Symposium on Polymeric Materials 2013, 28th February 2013, UniKL City Campus, Kuala Lumpur, Malaysia, pp. 1-8, Kuala Lumpur, (ISBN 978-983-2408-09-3).
12. **S.M. Sapuan**, Natural fibres: alternative fibres for polymer composites (KEYNOTE ADDRESS), Proceedings of the UPM-UniKL Symposium on Polymeric Materials, 2nd February 2012, UniKL-MICET, Alor Gajah, Melaka, Malaysia, pp. 1-10 (ISBN 978-983-2408-06-2)
13. **S.M. Sapuan**, Concurrent engineering for polymer composite, (KEYNOTE ADDRESS), the 9th National Symposium on Polymeric Materials, 14-16 December 2009, Residence Hotel, UNITEN, Kajang-Putrajaya, Malaysia (Abstract published in Book of Abstract) (ISBN 978-967-960-255-5).
14. **S.M. Sapuan** and J.P. Siregar, The effect of compatibilizing agents on tensile and flexural properties of pineapple leaf fibre reinforced high impact polystyrene composites (KEYNOTE

- ADDRESS), Presented at ,the Second Annual International Conference on Green Technology and Engineering, 15 – 17 April 2009, Universitas Malahayati, Bandar Lampung, Lampung, Indonesia.
15. **S.M. Sapuan**, Polymer composites in automotive industry (KEYNOTE ADDRESS), Proceedings of the International Conference on Composite Materials and Nano-structures, 25 – 29 April 2006, Concorde Hotel, Shah Alam, Malaysia, pp. 19, ISBN 967-960-206-0.
 16. **S.M. Sapuan**, Concurrent engineering manufacturing system for polymeric based composite automotive pedal box system (KEYNOTE ADDRESS), Proceedings of Symposium on Concurrent Engineering Manufacturing System for Polymeric Based Composite Automotive Components, 25th July 2003, Faculty of Engineering, UPM, Serdang, Malaysia, pp. 1-8, Published by Docuprint Enterprise, Kuala Lumpur, ISBN 983-2919-00-2.
 17. **S.M. Sapuan**, A. Khalina and M.T. Mastura, Development of biocomposites from forest products: sugar palm (*Arenga pinnata merr.*) based composites, Presented at the First International Conference on Bioscience and Biotechnology, 12-14 January 2016, Hotel Galadari, Colombo, Sri Lanka, Book of Abstract, p. 13, ISBN 978-955-4903-46-3.
 18. Ahmed Edhirej, **S.M. Sapuan**, Mohammad Jawaid, Nur Ismarrubie Zahari and M.L. Sanyang, Effect of cassava peel and cassava bagasse natural fillers on mechanical properties of thermoplastic cassava starch: Comparative study, Proceedings of the Advanced Materials Conference (AMC) 2016, 28 – 29 November 2016, Langkawi, Malaysia.
 19. R. Jumaidin, **S.M. Sapuan**, M. Jawaid, M.R. Ishak and J. Sahari, Sugar palm fibre reinforced polymer composites: A review, Presented at the 4th International Symposium on Applied Engineering and Sciences (SAEM2016), 17-18 December 2016, Tobata, Kyusu, Japan (Book of Abstract).
 20. **S.M. Sapuan**, M.R. Ishak, Z. Leman, M.Y. Yuhazri, R.A. Ilyas, M.M.M. Huzaifah and M. I. Ammar, Product development of sugar palm, presented at International Conference on Agriculture Extension (AGREX'17), 14 -16th February 2017, TNCPI Building (White House), UPM, Serdang, Selangor, Malaysia, book of abstract page 42.
 21. **S.M. Sapuan**, Design innovation in biocomposite materials product development, Proceedings of the 7th International Conference on Language, Education, and Innovation (ICLEI) 2017, Liberty Central Saigon Citypoint Hotel, Ho Chi Minh City, Vietnam, 20th – 21st May 2017, pp. 11-18 (ISBN 978-967-14467-8-2).
 22. M.T. Paridah, H.A. Aisyah, A. Khalina, **S. M. Sapuan**, M.S. Wahab and M.P. Saiman, Effect of weave design and fabric count on mechanical properties of laminated woven kenaf composite, Presented at the 25th Annual International Conference on Composites and Nano Engineering (ICCE-25), 16-22 July 2017, Rome, Italy.(Book of Abstract).
 23. A. Atiqah, M. Jawaid, **S. M. Sapuan** and M. R. Ishak, Thermal properties of sugar palm/glass fibre reinforced thermoplastic polyurethane hybrid composites Presented at the International Conference on Composite Structures (ICCS20), 4-7 September 2017, CNAM, Paris, France (Book of Abstract)
 24. R.A. Ilyas, **S.M. Sapuan** and M.R. Ishak, Degradation and water barrier properties of sugar palm starch-based nanocomposites reinforced with sugar palm nanocrystalline cellulose, Presented at Wood and Biofiber International Conference 2017 (WOBIC 2017), Bangi-Putrajaya Hotel, Putrajaya, Malaysia, 21-23 November 2017, Book of Abstract, p. 25.
 25. S. Bobba, Z. Leman, E.S. zainudin and **S.M. Sapuan**, Fluid flow analysis of E-glass fiber reinforced pipe joints in oil and gas industry, AIP Conference Proceedings, International Conference on Electrical, Electronics, Materials and Applied Science 2017; Swami Vivekananda Institute of Technology (SVIT), Secunderabad, Telangana, India, 22 - 23 December 2017; Code 136021, Volume 1952, 24 April 2018, Article number 020018.
 26. **S.M. Sapuan** and F.M. AL-Oqla, Knowledge based materials selection for natural fibre composites, Proceedings of the Sixth International Conference on System Modelling Advancement and Research Trends (SMART-2017), 29th-30th December 2017, Moradabad, India, pp.227-230, ISBN 978-1-5386- 19032, Teerthanker Mahaveer University (TMU), Moradabad, Uttar Pradesh, India.
 27. R.A. Ilyas, **S.M. Sapuan**, M.R. Ishak, E.S. Zainudin and M.S.N. Atikah Nanocellulose reinforced starch polymer composites: A review of preparation, properties and Application, Proceedings of the 5th International Conference on Applied Sciences and Engineering Application (5th ICASEA 2018), 7-8 April 2018, Copthorne Hotel, Cameron Highlands, Pahang, Malaysia, pp. 325-341, eISBN 978-967-15744-1-6, Organized by Global Academic Excellence (M) Sdn. Bhd. and Penerbit Akademia Baru.
 28. M.T. Mastura, **S.M. Sapuan** and M.R. Mansor, Concurrent manufacturing process selection for natural fiber thermoplastic composites, Presented at the International Symposium of the Analytic

- Hierarchy Process 2018 (ISAHP 2018), 12-16 July 2018, Hong Kong, HK, organized by Creative Decisions Foundation, USA, Book of Abstract, p. 80, ISBN 978-1-888603-59-0.
29. R.A. Ilyas, **S.M. Sapuan**, M.R. Ishak, E.S. Zainudin and M.S.N. Atikah, Degradation and physicochemical properties of SPNFCs/SPS Bionanocomposite, Presented at the First International Conference on Safe Biodegradable Packaging Technology (SafeBioPack 2018), 24-26 July 2018, Might Partnership Hub, Cyberjaya, Malaysia, Abstract published in Book of Abstract, pp. 45.
 30. M.T. Shamsul Bahri, N.Y. Guan, K.N. A. Wahab, R. Rahman, A.B. Shariman, **S.M. Sapuan** and H.M.S.N. Dayana, Creativity in design of safety helmet for oil palm workers, Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018), Part of the Advances in Intelligent Systems and Computing (AISC, volume 824), 26th – 30th August 2018, Florence, Italy, First online: 11 August 2018, pp. 1044-1047, Springer Nature, Cham, Switzerland AG, 2019. ISBN978-3-319-96067-8.

Books (If any)

1. **S.M. Sapuan**, *Reka Bentuk Kejuruteraan: Ke Arah Persepaduan Reka Bentuk dan Pembuatan* (In Malay) (*Engineering Design: Towards the Integration of Design and Manufacture*). December 1999, Era Ilmu Sdn. Bhd., Kuala Lumpur, Malaysia ISBN No. 983-2199-04-2, 144 pages, 80 illustrations.
2. **S.M. Sapuan**, *Bahan Komposit Berasaskan Polimer, Sifat-Sifat, Reka Bentuk, Pembuatan dan Penggunaan* (In Malay) (*Polymeric-Based Composite Materials: Properties, Design, Manufacture and Use*), January 2000, Universiti Putra Malaysia Press, Serdang, Selangor, Malaysia ISBN 983-9319-79-5, 128 pages, 109 illustrations.
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4. **S.M. Sapuan**, Abu-Bakar, A.H., Z. Leman and Ali, M.A.H., *Pengurusan, Gelagat dan Keselamatan Pekerja dalam Industri*, (in Malay) (*Management, Behavior and Workers' Safety in Industry*) 2003, Utusan Publications and Distributions Sdn. Bhd. Kuala Lumpur, Malaysia, ISBN 967-61-1405-7, 97 pages, 15 illustrations.
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Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Natural Fibre Composites	Indonesian Rupiah (RP) 45 millions.	2010– 2011	Indonesia Government of Directorate General of Higher Education (DIKTI) (with Universitas Andalas, Padang, Indonesia)
2.	Academic Visit to Indonesia as Visiting Professor	Indonesian Rupiah (RP) 22.785 millions	2012	Universitas Malahayati, Indonesia
3.	Sugar Palm Fibre Reinforced Biodegradable Sugar Palm Starch Composites: Development and Characterization	20,000	2015- 2016	SEARCA Regional Professorial Chair Grant, Philippines
4.	Characterization and Formulation of Biocomposite Materials for Safety Helmet Among Palm Oil Plantation Workers in Malaysia	70,000	2017– 2018.	Universiti Putra Malaysia (UPM) - Sime Darby Research (SDR)
5.	Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau di Kg. Kuala Jempol	156,100.00	2015- 2016	UCTC Fund Scheme, under the initiative of National Blue Ocean Strategy (NBOS) No. 1, year 2015 Ministry of Education (Community grant)
6.	Putra Frame (Certificate/Photo Frame Based on Biocomposite Materials) (Involving Asnaf Community, UPM, frame to be used during UPM Convocation)	124,014	2016- 2018	Bursar, Universiti Putra Malaysia, Special Project
7.	Finite Element Modelling and Advanced Computation of Hard and Soft Rolling Processes	280,000	1999- 1999	Ministry of Science, Technology and Environment, Malaysia (IRPA)



8.	Concurrent Engineering Manufacturing System of Polymeric-Based Composite Automotive Pedal Box	99,080	2001-2005	Ministry of Science, Technology and Environment under Experimental Applied Research Program of IRPA.
9.	Advanced Design and Manufacturing Techniques for Automotive Components	10,000	2001-2002	Universiti Malaya
10.	Experimental and Finite Element Analysis of the Pressure Carrying Capacity for Reinforced Composite Material Tubes	98,000.00	2003-2006	Ministry of Science, Technology and Innovation (MOSTI),
11.	Thermomechanical Properties of Pineapple Leaf Fibre Reinforced Polystyrene Composites	76,500	2007-2009	Fundamental Research Grant Scheme (FRGS)
12.	Mechanical and Environmental Properties of Kenaf Fibre Reinforced Thermoplastic Polyurethane Composites	43,000	2010-2012	Fundamental Research Grant Scheme (FRGS)
13.	Characterization and Development of New "Green" Composite Material from Sugar Palm Fibre for Engineering Application	141,660.	2010-2011	(ScienceFund) R&D Fund in Agriculture
14.	Effect of Carbon Nanotubes Inclusion on Fatigue Life Performance of Aircraft Composites	50,000	2012-2014	Research Acculturation Collaborative Effort (RACE)
15.	Characterization and Development of Novel Biopolymer and its Biocomposites Derived from Sugar Palm Tree Source of Fund: : Exploratory	96,000	2013-2015	Research Grant Scheme (ERGS)
16.	Numerical Simulation and Experimental Studies on the Fatigue Limit and Fatigue Strength in High Temperature of Type 316L Stainless Steel	125,000	2014-2016	Ministry of Science, Technology and Innovation, Malaysia (MOSTI)
17.	Mechanical and Biodegradability Studies of Anti-Pest Biocomposites Derived from Melaleuce Alternifolia (Tea Tree)	45,000	2015-2016	Research Acculturation Collaborative Effort (RACE),
18.	Fundamental Study on Direct Recycling of rHDPE in Concrete Structures	44,750	2015-2017	Research Acculturation Collaborative Effort (RACE)
19.	Program no. 2 under HICoE 2016	1,030,000	2016-2019	(HiCOE), Niche Area: Tropical Wood and Fibre, MOHE
20.	Conceptual Design, Material Selection, Development and Characterization of Natural Fiber Reinforced Biocomposites for Structural and Non-Structural Applications	800,000	2016-2019	(HiCOE), Niche Area: Tropical Wood and Fibre, MOHE



21.	Extraction of Nanocellulose and Development of Green Nanocomposites from Sugar Palm Fibers, Source of fund: Ministry of Higher Education, Malaysia	99700	2017-2020	Fundamental Research Grant Scheme (FRGS)
21.	Numerical and Experimental Investigation of Fibre Reinforced Injection-Moulded Thermoplastic Composites	10,000	2001-2002	UPM short-term grant
22.	Computer Aided Materials selection for Components made from Composites using Analytical Hierarchy Process	144,000	2007-2010	Research University Grant Scheme (RUGS)
23.	Thermo-Mechanical properties of Sugarcane Bagasse Fibre Reinforced Unplasticized Poly (Vinylchloride) (UPVC) Composites (Project leader)	77,000	2007-2010	Research University Grant Scheme (RUGS)
24.	Studies on Biodegradable Mulch Film Derived from Cocoa Pod Husk (CPH) Filled Poly (Lactic Acid) Biocomposites	120,000	2011-2014	Research University Grant Scheme (RUGS)
25.	Analytical of Residual Stresses Thin Walled Plastic Part Natural Fibre (Rice Husk or Wood)	13,000	2012-2014	Research University Grant Scheme (RUGS)
26.	Mechanical Properties of Pultruded Kenaf Fibre Reinforced Epoxy Vinyl Ester Composite	13,000	2012-2015	Research University Grant Scheme (RUGS)
27.	Research on Biocomposites	10,000	2013-2014	INTROP, UPM Allocation as Research Advisor at INTROP
28.	Development of Untreated and Treated Hybrid Roselle/Sugar Palm Fibre Vinyl Ester Composites for Automotive Components	15,000	2014-2016	UPM Putra Grant (IPS)
29.	Development of Glass/Sugar Palm Fibre Reinforced Polyurethane Hybrid Composites in Automotive Anti-Roll Bar (Overall Project Title)	556,800.00	2015-2017	UPM Putra Grant Group Putra Initiative (IPB)
30.	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)	241,400.00	2015-2017	UPM Putra Grant (IPB)
31.	Development and characterization of seaweed reinforced agar/sugar palm starch composite	20,000	2015-2017	Putra Grant – Graduate Project Initiative (GP-IPS grant), UPM
32.	Development of Hybrid Natural/Glass Fibre Reinforced Thermoplastic Composites for Side-Door Impad Beam	20,000	2016–2018	Putra Grant – Graduate Project Initiative (GP-IPS grant), UPM
33.	Research on Biocomposites	10,000	2017-2019	INTROP, UPM Allocation as Research Advisor at INTROP

34.	Development and Characterization of Un-Saturated Polyester Composites With Waste Rubber Glove Particles As Fillers,	25000	2018-2020	Geran Putra IPS Universiti Putra Malaysia
35.	Composite Table	17,000	2018-2018	Product Promotion Fund, Putra Science Park, UPM
36.	Mechanical And Flammability Properties of Lightweight Structure Made Of Flax- Based Composite For Aerospace Application	25,000	2018-2020	Geran Putra IPS Universiti Putra Malaysia

Awards/Recognition (Current)

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Best Paper Award	Energy Utilization and Saving measures in Composite Industry: A Review	15 th DOST-ERDT Conference and 11 th AUN/SEED-Net Regional Conference on Energy Engineering.	International	2018
2.	Best Paper Award	Conceptual design of automobile engine rubber mounting composite using TRIZ-Morphological chart-analytic network process technique	Defence Technology, China Ordinance Society	International	2018
3.	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, Clarivate Analytics, USA	International	2018
4.	The Best General Book (Category of Flora and Fauna), National Book Award 2018	Pokok Enau: Potensi dan Pembangunan Produk ISBN 978-967-344-747-3	National Book Development Foundation (YPNB)	National	2018
5.	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	National	2018

			Stadium Tertutup Kompleks Sukan Negeri, Kuala Nerus, Terengganu, Malaysia		
6.	Best Poster Award	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	2018
7.	Batch SAE Fellow	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	2018
8.	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	2018
9.	Certificate of Appreciation	Outstanding Award in Teaching, Faculty of Engineering	Universiti Putra Malaysia	Institutional	2018
10.	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	2017
11.	Finalist, Distinguished Alumni Award 2017	Distinguished Alumni Award 2017	Malaysian Australian Alumni Award 2017, Kuala Lumpur	International	2017
12.	Fourth Place	Pertandingan Projek Penyelidikan Inovasi Nanoteknologi, Kategori Sarjana, Nano Kebangsaan 2017	National Nanotechnology Centre	National	2017
13.	Second Place Winner	Poster Presentation	Wood and Biofiber International Conference	National	2017

			2017 (WOBIC 2017), Putrajaya, Malaysia		
14.	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	2017
15.	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	2017
16.	Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HiCOE) 290016		COE: Institute of Tropical Forest Forestry and Forest Products (INTROP)	National	2017-2019
17.	IOP Outstanding Reviewer Award 2016	Materials Research Express 2016	Institute of Physics, UK	International	2017
18.	Vice Chancellor Fellowship Award 2016	Winner of Category Outstanding Researcher Award for the Cluster of Science and Technology	Sultan of Selangor	Institutional	2017
19.	Vice Chancellor Fellowship Award 2016	Winner of Category Best of Journal Publication Award for the Cluster of Science and Technology, presented by	Sultan of Selangor	Institutional	2017
20.	Outstanding Service Award 2016		Universiti Putra Malaysia	Institutional	2017



21.	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
22.	Insentif Makalah Jurnal 2016	Majlis Apresiasi Penyelidikan 2016	Prof. Dato. Dr Husaini Omar, Deputy Vice Chancellor (Research and Innovation, Universiti Putra Malaysia)	Institutional	2017
23.	Certificate of Appreciation	PhD supervisor for Ahmed Edhirej who has successfully graduated on time in 2017	Universiti Putra Malaysia.	Institutional	2017
24.	Certificate of Appreciation	PhD supervisor for Ridzwan Jumaidin who has successfully graduated on time in 2017	Universiti Putra Malaysia	Institutional	2017
25.	Certificate of Appreciation	PhD supervisor for Mastura Mohamad Taha who has successfully graduated on time in 2017	Universiti Putra Malaysia	Institutional	2017
26.	Certificate of Appreciation	PhD supervisor for Nadlene Razali who has successfully graduated on time in 2017	Universiti Putra Malaysia	Institutional	2017
27.	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
28.	Best Paper Award	A review of different forms and types of waste plastic used in concrete structure to improve the mechanical properties	1 st Conference on Engineering, Technology and Education 2016), (CETEd2016), Politeknik Merlimau, Merlimau, Melaka, Malaysia	National	2016
29.	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



30.	Certificate of Appreciation	Supervisor for Ridwan Yahaya who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
31.	Certificate of Appreciation	Supervisor for Muhd Ridzuan Mansor who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
32.	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
33.	Certificate of Appreciation	Supervisor for Khairul Azhar Mohammad who has successfully graduated on time in 2015, Universiti Putra Malaysia	Universiti Putra Malaysia	Institutional	2016
34.	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
35.	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
36.	Certificate of Appreciation	Appreciation on the contribution and commitment in the success of "Writing Cells" Project	Research Management Centre (RMC),UPM	Institutional	2016



37.	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
38.	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
39.	Silver Medal	Sugar palm based products	Pameran Rekacipta Penyelidikan dan Inovasi (PRPI 2016), UPM	Institutional	2016
40.	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
41.	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
42.	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
43.	Visiting professor	Faculty of Information Sciences and Engineering	Management Science University (MSU), Shah Alam, Selangor, Malaysia	National	2016-2018
44.	SEARCA Regional Professorial Chair Award		South East Asia Regional Centre for Graduate Study and Research in Agriculture (SEARCA), Los	International	2016

			Banos, Laguna, Philippines		
45.	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
46.	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
47.	Runner-up for the Best Manuscript	Selecting natural fibres for industrial applications,	Postgraduate Symposium on Biocomposite Technology 2015, Serdang, Selangor, Malaysia	National	2015
48.	25 Most Cited Articles 2009-2013	Material screening and choosing methods – a review	Publisher Materials Science, Elsevier	International	2014
49.	Outstanding Service Award 2014	For demonstrating outstanding service in 2014	Universiti Putra Malaysia	Institutional	2015
50.	Anugerah khidmat cemerlang, (Outstanding Service Award, UPM)		Universiti Putra Malaysia	Institutional	2015
51.	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
52.	Best Paper Award	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

53.	Silver Medal, Bioinnovation Awards, Kuala Lumpur	Built-in lumbar support for motorcycle	Malaysian Association of Research Scientists (MARS)	National	2014
54.	Silver Medal	Motorcycle seat with built-in lumbar support	Exhibition of Invention, Research and Innovation UPM (PRPI 2014), UPM Serdang	Institutional	2014
55.	Outstanding Service Award 2013	For demonstrating outstanding service in 2013	Universiti Putra Malaysia	Institutional	2014
56.	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, UPM Serdang	Institutional	2014
57.	Best Paper Award	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
58.	Best Paper Award	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
59.	Best Paper Award	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
60.	Best Paper Award	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
61.	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
62.	Silver Medal	Motorcycle seat with built-in lumbar support	Exhibition of Invention, Research and Innovation UPM (PRPI 2014) Serdang	Institutional	2014

63.	KIA Laureate of the Khwarizmi International Award	Preparation and characterization Of kenaf reinforced thermoplastic composites	26 th International Khwarizmi Award, IROST, Tehran, Iran	International	2013
64.	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
65.	Certificate of Achievement	In recognition of outstanding achievement as a 5-Star Role Model Supervisor	Universiti Putra Malaysia	Institutional	2013
66.	Outstanding Researcher Award	Outstanding Researcher Award	Faculty of Engineering, Universiti Putra Malaysia	Institutional	2013
67.	Certificate of Appreciation	The co-supervisor for Mehran Masoudi who has been awarded a PhD with distinction	Universiti Putra Malaysia	Institutional	2013
68.	Anugerah Penyelidik Cemerlang tahun 2013 (Kategori Profesor)	Faculti Kejuruteraan, UPM	Universiti Putra Malaysia	Institutional	2013
69.	Certificate of Achievement Award	In recognition of outstanding achievement as a 5-Star Role Model Supervisor	Vice Chancellor, Universiti Putra Malaysia	Institutional	2013
70.	Certificate of Appreciation	The co-supervisor for Mehran Masoudi who has been awarded a PhD with distinction in 2013 by UPM.	Universiti Putra Malaysia	Institutional	2013
71.	Recipient of Publication Incentive 2012 Universiti Putra Malaysia	Publication Incentive 2012	Deputy Vice Chancellor (Research and Innovation), UPM	Institutional	2013



	Amount received: RM 35,222.56				
72.	2012 Alumni Awards	The Alumni Medal for Professional Excellence Finalist	University of Newcastle, New South Wales, Australia	International	2012
73.	Second Prize Winner for 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
74.	Rotary Research Awards	The Rotary Club of Kuala Lumpur The Rotary Club of Kuala Lumpur	The Rotary Club of Kuala Lumpur DiRaja	National	2012
75.	Fellow MSA (FMSA)	Majlis Anugerah Kecemerlangan Sains dan Teknologi	Malaysian Scientific Association (MSA)	National	2012
76.	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
77.	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
78.	Certificate of Outstanding in Teaching 2012	Faculty of Engineering Mechanical	Universiti Putra Malaysia	Institutional	2012
79.	Sijil Penghargaan Perkhidmatan Cemerlang 2011	UPM Excellent Service Appreciation Certificate 2011, UPM	Vice Chancellor, UPM	Institutional	2012
80.	Anugerah Kecemerlangan Dalam Pengajaran Tahun 2012	Excellence Award in Teaching 2012),	Universiti Putra Malaysia	Institutional	2012
81.	Won the Best Poster Award	Majlis Pembentangan dan	Fakulti Kejuruteraan, UPM	Institutional	2012

		Pameran Projek Pelajar Tahun Akhir			
82.	Certificate of Outstanding Service 2011	For demonstrating outstanding service in 2011	Universiti Putra Malaysia	Institutional	2012
83.	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
84.	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
85.	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
86.	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
87.	Outstanding Service Award, UPM, 2010	For demonstrating outstanding service in 2010	Universiti Putra Malaysia	Institutional	2011
88.	Certificate of Outstanding in Teaching 2011	Faculty of Engineering	Universiti Putra Malaysia	Institutional	2011
89.	Outstanding Researcher Award 2011	Faculty of Engineering	Universiti Putra Malaysia	Institutional	2011
90.	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
91.	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

92.	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
93.	Silver Medal	Potential of hybrid biocomposite as a substitute to carbon Fibre	Exhibition of Invention, Research and Innovation UPM (PRPI 2011)	Institutional	2011
94.	Bronze Medal	Reducing water uptake of natural-fibre composite through hybridization	Exhibition of Invention, Research and Innovation UPM (PRPI 2011)	Institutional	2011
95.	Silver Medal	High Moisture Durability of Moulded Biocomposite	Exhibition of Invention, Research and Innovation (PRPI 2011)	Institutional	2011
96.	Listed in UPM's Top 100 Researchers list	Top 100 Researchers list	Deputy Vice Chancellor (Research and Innovation), UPM	Institutional	2011
97.	Excellence Researcher Award	One year parking space	Faculty of Engineering, UPM	Institutional	2011
98.	Recipient of Publication Incentive 2009 Amount received: RM 7,828.00	Publication Incentive 2009	The Office of Deputy Vice Chancellor (Research and Innovation), UPM	Institutional	2011
99.	Excellence Award in Teaching 2011		Faculty of Engineering, UPM	Institutional	2011
100.	First Prize	FRIM Publication Award (Category: Semi/Non-Technical Publication)	Forest Research Institute of Malaysia (FRIM)	National	2010
101.	Fellow PRIM (FPRIM)	PRIM Dinner and Award Presentation 2010	Plastic and Rubber Institute Malaysia	National	2010
102.	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
103.	Silver Medal	Development of Ijuk (Arenga Pinnata) Fiber Biocomposite	Exhibition of Invention, Research and Innovation UPM (PRPI 2010), 20th – 22nd July 2010, Universiti Putra Malaysia-	Institutional	2010

		for Small Boat Application			
104.	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
105.	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
106.	Excellence Service Award 2009		Universiti Putra Malaysia	Institutional	2010
107.	Silver Medal	Development of Ijuk (Arenga Pinnata) Fiber Biocomposite for Small Boat Application	Exhibition of Invention, Research and Innovation UPM (PRPI 2010)	Institutional	2010
108.	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
109.	Bronze Medal	Fabrication of Functionally Graded Material by Pressureless Method Exhibition of Invention	Research and Innovation UPM (PRPI 2010)	Institutional	2010
110.	Excellence Researcher Award	One year parking space	Faculty of Engineering, UPM	Institutional	2010
111.	Excellent Department Award	Head of Department	Faculty of Engineering, UPM	Institutional	2010
112.	Nominated for Merdeka Award 2010	The Merdeka Award Nomination Committee (Health, Science & Technology Category)	Petroleum Nasional Berhad Berhad Kuala Lumpur	National	2009



113.	First Runner-up, UTM-	Educational Innovation of Motorsport & Automotive Race '09 (EIMA RACE '09)	Litar Dato' Sagor, Kampung Teluk, Kampong Gajah, Perak, (RM 2,000) (Advisor).	National	2009
114.	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
115.	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
116.	Best Department Award	Head of Department) (5 star rating)	Faculty of Engineering, UPM	Institutional	2009
117.	Excellence Service Award		Faculty of Engineering, UPM	Institutional	2008
118.	Excellence in Teaching Award 2008		Faculty of Engineering, UPM	Institutional	2008
119.	Excellence Service Award		Universiti Putra Malaysia	Institutional	2008
120.	Best Oral Presentation Award	Potential use of sugarcane bagasse fibre as reinforcing component in poly (vinyl chloride) matrix composites	VIIIth National Symposium on Polymeric Materials 2008 (NSPM'08), Naza Hotel, Penang, Malaysia.	National	2008
121.	Fourth Place, 2008	Formula Varsity UTeM, Sport Complex, UTeM Main Campus, Melaka	Universiti Teknikal Malaysia Melaka (UTeM), Durian Tunggal, Melaka	National	2008



122.	Gold Medal	ISESCO Science Award in Technology	The Islamic Educational, Scientific and Cultural Organization (ISESCO), Rabat Morocco	International	2008
123.	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
124.	Short listed	Malaysian Toray Science Foundation (MTSF) Science and Technology Award	Malaysian Toray Science Foundation	National	2008
125.	Member Service Award	(10 year Recipient)	Society of Automotive Engineers, International, USA	International	2008
126.	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
127.	Vice President	Elected as Vice President	Asian Polymer Association,	International	2008-2018
128.	Honorary Life Member	Elected as Honorary Life Member	Asian Polymer Association	International	2008
129.	Vice Chancellor Fellowship Prize 2008	Excellence in Research	Universiti Putra Malaysia	Institutional	2008
130.	Best Laboratory (Publication)	Quality Day, ITMA, UPM, (As Member of Laboratory)	Universiti Putra Malaysia	Institutional	2008
131.	Best Labotatory (Research Grant)	Quality Day, ITMA, UPM. (As Member of Laboratory)	Universiti Putra Malaysia	Institutional	2008
132.	UPM Excellent Award in Research 2008	Faculty of Engineering (Parking Space for one year)	Universiti Putra Malaysia	Institutional	2008



133.	Excellent Department Special Award	Faculty of Engineering, UPM, (as Head of Department)	Universiti Putra Malaysia	Institutional	2008
134.	Certificate of Excellence in Teaching 2008		Faculty of Engineering, UPM	Institutional	2008
135.	Certification of Appreciation	Servive contributed to ITMA in achieving the research mission and Research University throughout year 2007	Advanced Technology (ITMA), UPM	Institutional	2008
136.	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
137.	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
138.	Certificate of Excellence in Teaching 2007		Faculty of Engineering, UPM	Institutional	2007
139.	Excellence Researcher Award 2007	Publication Incentive Award, UPM (The highest Incentive for the Category of Professor)	Universiti Putra Malaysia	Institutional	2007
140.	Silver Medal	Polymer Composite Automotive Components,	Malaysia Technology Expo	National	2006



141.	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
142.	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
143.	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
144.	Excellence Award	For organizing special issues in American Journal of Applied Sciences	Science Publications, New York, USA	International	2005
145.	Silver Medal	Design and fabrication of filament winding machine,	Exhibition of Invention, Research and Innovation, Universiti Putra Malaysia	Institutional	2005
146.	UPM Certificate of Excellent Service		Universiti Putra Malaysia	Institutional	2006
147.	Bronze Medal	Fretting fatigue test rig	Exhibition of Invention, Research and Innovation UPM	Institutional	2005
148.	Certificate of Recognition	Active Member for 5 years	Society of Automotive Engineers, USA	International	2004
149.	Excellence Service Award 2003		Human Resource Development Universiti Putra Malaysia	Institutional	2004



150.	Fellow	Promoted member to Fellow	Institute of Materials Malaysia (FIMM)	National	
151.	Life Fellow	Elected as Life Fellow	International Biographical Association (LFIBA), Cambridge, UK	International	2003
152.	Best paper award		Symposium on Concurrent Engineering Manufacturing System for Polymeric Based Composite in 2003 (Co-author)	Institutional	2003
153.	Excellence Service Award		Universiti Putra Malaysia	Institutional	2003
154.	The Who's Who Award	Achievement 2002 Made outstanding contribution to Mechanical Engineering	International Biographical Centre, Cambridge CB2 3QP England	International	2003
155.	Decree of Merit	Outstanding contribution to Mechanical Engineering	International Biographical Centre, Cambridge CB2 3QP England	International	2002
156.	Most proactive participant award	2nd National Symposium on Polymeric Materials 2002	Plastics and Rubber Institute of Malaysia (PRIM)	National	2002
157.	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
158.	Excellence Service Award		Universiti Putra Malaysia	Institutional	2002
159.	Bronze Medal		Research and Development (R&D) Exhibition, Faculty of Engineering, UPM	Institutional	2002
160.	Bronze Medal		Invention and Research Exhibition, Universiti Putra Malaysia	Institutional	2002
161.	Anugerah Karyawan Putra Cemerlang	Science and Technology	Chancellory, Universiti Putra Malaysia	Institutional	2002



162.	Excellence Service Award		Universiti Putra Malaysia	Institutional	2001
163.	Research Associate		Advanced Materials Laboratory, ITMA, UPM	Institutional	2001-2006
164.	Quality Service Award		Faculty of Engineering, UPM	Institutional	1999
165.	Excellence Service Award		Faculty of Engineering, UPM	Institutional	1998

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2018	Panel of Jury, Creation, Innovation, Technology & Reseach Exposition 2018 (CITREx 2018)	Universiti Malaysia Pahang, Gambang, Pahang	RM 300
2.	2016-2018	External Examiner/ Assessor	Faculty of Engineering, Technology and Built Environment UCSI University, Kuala Lumpur	RM 500
3.	2016-2018	External Examiner	Faculty of Information Sciences and Engineering Management & Science University (MSU), Shah Alam, Selangor	RM 1,500
4.	2016-2019	External Examiner	Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia	RM 4,000
5.	2016	External Examiner	Faculty of Engineering, Universiti Malaysia Sarawak (UNIMAS), Kota Samarahan, Sarawak	RM 2,000
6.	2015-2017	External Assessor	Faculty of Engineering, Technology and Built Environment and Mechanical Engineering UCSI University, Kuala Lumpur	RM 1,000
7.	2015	Peer Reviewer of Research Proposal	National Science Centre, Poland, Poland	RM 500
8.	2014	Judge, International Research, Invention and Innovation Exhibition 2014 (IRIIE 2014)	International Islamic University Malaysia Jalan Gombak, Kuala Lumpur	RM 300
9.	2012	Peer Reviewer of Research Proposal	Christian Doppler Research Association (CDG), Austria	RM 2,500
10.	2012	Judge, IIUM Research, Invention and Innovation Exhibition 2012 (IRIIE 2012)	International Islamic University Malaysia	RM 400

11.	2011	Peer Reviewer of Research Proposal	Jalan Gombak, Kuala Lumpur	RM 3,000
12.	2009	Program Accreditation	Qatar National Research Fund, Qatar Foundation	RM 1,000
13.	2009-2011	External Examiner and Assessor	Universiti Kuala Lumpur, Malaysian Spanish Institute (UNIKL MSI), Kulim, Kedah	RM 4,000
14.	2008-2010	External Academic Examiner for Faculty of Manufacturing Engineering, UTeM	Institute of Product Design and Manufacturing, Universiti Kuala Lumpur (UniKL IPROM)	RM 12,000
15.	2008	Program Accreditation	UTeM, Melaka	RM 1,532.40
16.	2008	Program Accreditation	INTI International University College, Putra Nilai, Nilai, Negeri Sembilan	RM 1,650
17.	2006-2008	Development of Engineering Demonstration Tools for School Children using Rapid Prototyping Machine	Malaysian University of Science and Technology (MUST), Petaling Jaya	RM 6,000
18.	2006-2008	Energy Transfer Wall	Pusat Sains Negara	RM 6,000
19.	2003	Program Accreditation (Course Approval Assessment)	Pusat Sains Negara	RM 400
20.	2003	Program Accreditation	The University of Nottingham in Malaysia (UNiM), Semenyih, Selangor	RM 1,556
21.	2001	Development of Curriculum for Diploma Program in Industrial and Product Design in IKM	Asian Institute of Medicine, Science and Technology (AIMST), Amanjaya, Sungai Petani, Kedah	RM 4,000
22.	2000	Preliminary Proposal on the Establishment of a Faculty of Engineering at UNITAR	Apex Communications Sdn. Bhd.	RM 6,000
			Universiti Tun Abdul Razak (UNITAR)	

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 (Malaysian)	Leman 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 (Malaysian)	Yahaya	Mechanical and Ballistic Properties of Natural Fibre-Aramid Hybrid Laminated Composites	Completed
24.	Muhammed Sanyang (Gambian)	Lamin	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 (Libyan) (2016)	AlMabruk	Crushing Behaviour of Natural Fiber (Kenaf) Reinforced Hexagonal Composite Tube	Completed
27.	Nadlene (Malaysian)	Razali	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 Hissen Edhirej (Libyan)	Ibrahim	Characterization and Development of Cassava (Manihot esculenta Crantz) / Sugar Palm (Arenga pinnata (Wurmb) Merr.) Fiber-Reinforced Cassava Starch Hybrid Composites	Completed
31.	Mohd Ridhwan (Malaysia)	Jumaidin	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	Sat for viva
33.	Mohamed M. Alkateb (Libyan)	Mohamed.	Crushing Behaviour of Natural Fibre Reinforced Elliptical Composite Cones	Submitted
34.	Che Suhana (Malaysian)	Hassan	Mechanical Properties of Unidirectional Oil Palm Empty Fruit Bunch (OPEFB) Fibre Composite and their Crash Performance for Bumper System Application	Submitted

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	Ongoing
37.	Noor Azammi Abdul Murat (Malaysian)		Kenaf Filled TPNR Composites for Automotive Engine Rubber Mounting	Ongoing
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 (Malaysian)	Abdullah	Characterization of Sugar Palm Fibre Reinforced Epoxy Composites	Ongoing
40.	Noryani (Malaysian)	Muhammad	Materials Selection of Natural Fibre Composites using statistical Methods	Ongoing
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 Abu Bakar (Malaysian)		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	Deferred
45.	Muhammad Mohd Roslim (Malaysian)	Huzaifah	Properties of Sugar Palm (Arenga Pinnata) Fibre Reinforced Vinyl Ester Composites with Reinforcements Obtained from Different Geographical Location	Ongoing
46.	Ahmad Ilyas (Malaysian)	Rushdan	Development and Characterization of Sugar Palm Nanocellulose Fibre Reinforced Sugar Palm Starch Biopolymer Composite	Ongoing
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	Ongoing

MS with thesis (Main Supervisor)

No.	Name	Title	Status
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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.	Rozilah Abdullah (Malaysian)	Anti-Bacterial Properties of Nanocellulose Fibre Reinforced Sugar Palm Starch Biocomposites	Ongoing

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Mohd Shafirool 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 Amira Misman	The Effect of Fibre Length on Mechanical Properties of Random Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Ongoing

