

CURRICULUM VITAE



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Education

1. Ph.D (Materials Engineering), Universiti Putra Malaysia, 2010
2. M.Sc (Manufacturing Systems Engineering), University of Warwick, U.K., 1995
3. B.Sc (Mechanical Engineering), Tri-State University, Indiana, USA, 1993

Research Interest

Materials and Manufacturing Engineering

Professional Qualification/Membership/Affiliation

1. Member, (no 0372) Professional Association in Modern Manufacturing Technologies
2. Member, (no. 44620) SAVE International.
3. Value Methodology Associate (VMA) cert. no. 201202049, SAVE International.
4. Graduate Member, (no. G54313) Institution of Engineers Malaysia (IEM).
5. Graduate Member, (no. 46335A) Board of Engineers Malaysia (BEM).
6. Member, (no. 00307) Malaysian Society for Engineering and Technology.
7. Member, (no. 00139) Institute of Value Management Malaysia.

Other Memberships

1. Ahli, Persatuan Pembangunan dan Industri Enau Malaysia.
2. Ahli, Persatuan Pegawai Akademik UPM
3. Ahli, Persatuan Alumni UPM
4. Ahli, Kelab Sukan dan Sosial, Fakulti Kejuruteraan UPM

Appointments

Position	Duration
1. Chairman, Value Management Committee	2022-
2. Head of Department	2018-2023
3. Associate Professor	2010-
4. Residential College Principal (K10 and K15)	2011-2016
5. Associate Researcher, Biocomposite Technology Laboratory, INTROP	2016-2019, 2021-
6. Head of Field of Postgraduate Study with thesis: Materials Engineering (Dept)	2015-2018
7. Member, Value Management Committee (UPM)	2012-2022
8. Program Coordinator: Master of Engineering Management	May 2003-May 2009, 2023-
9. Coordinator of Postgraduate Studies (Dept)	2009-2011
10. Coordinator: Instrumentation Laboratory (Dept)	2007-2016
11. Coordinator I: Metal Forming Laboratory (Dept)	2004-2007
12. Chairman: Quality Assurance Committee (Dept)	1998-2002
13. Committee member: ISO9001 Action Committee (Faculty)	2000-2002
14. Committee member: Quality Assurance Council (Faculty)	2001-2002
15. Internal Quality Auditor (Faculty)	2000-2009
16. Member: Manufacturing and Management Unit (Dept)	1998-date

Courses Taught**Undergraduate:**

Industrial Management I
Manufacturing Systems Design
Manufacturing Automation II
Manufacturing Planning and Control Systems
Engineering Economy and Cost Accounting
Cost Accounting and Engineering Economy
Engineering Economic Analysis
Statics
Characterisation and Fabrication of Composite Materials

Postgraduate:

Manufacturing Operations Management
Design of Manufacturing Systems
Total Quality Management
Value Engineering
Financial Analysis For Engineers

Publications**Current *h-index* = 34****Citation Indexed Journals**

1. Budati, S., Sulaiman, M.H., **Leman, Z.**, Yusoff, M.Z.M., Zainudin, E.S. (2024). Experimental investigation on the physical, mechanical, and tribological behavior of brake friction composites for railway application, *Jurnal Tribologi*, 40, pp. 212–225,
2. Bobba, S., Malyadri, T., **Leman, Z.**, Kumar, J.S. (2024). Mechancial Behaviour of Silver and Copper Nanoparticles When Incorporated With Poly-Lactic Acid Nanoparticles, *Journal of The Institution of Engineers (India): Series D*, DOI: 10.1007/s40033-024-00767-9.
3. Delgoshaei A., Ariffin M.K.A.M., Maleki S., **Leman Z.** (2023). Review evolution of dual-resource-constrained scheduling problems in manufacturing systems: modeling and scheduling methods' trends, *Soft Computing*, 27 (24), pp. 18489 – 18528, DOI: 10.1007/s00500-023-09304-4.
4. Khean C.C., **Leman Z.**, Adam N.M., Supeni E.E. (2023). Effects of Building Materials on Building Thermal Load in Malaysian Institutional Library, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 107 (2), pp. 191 - 207, DOI: 10.37934/arfmts.107.2.191207.
5. Doğan D., Mohamed Ariff A.H., **Leman Z.**, Metin A.Ü. (2023). Magnetic cellulose-based composite as a new effectively reusable biosorbent for cationic dye removal: Batch and lab-scale column studies, *Cellulose*, 30 (11), pp. 7003 – 7029, DOI: 10.1007/s10570-023-05282-w.
6. Gholizadeh S., **Leman Z.**, Baharudin B.T.H.T. (2023). State-of-the-art ensemble learning and unsupervised learning in fatigue crack recognition of glass fiber reinforced polyester composite (GFRP) using acoustic emission, *Ultrasonics*, 132, art. no. 106998, DOI: 10.1016/j.ultras.2023.106998.
7. Ahmad M.N., Ishak M.R., Mohammad Taha M., Mustapha F., **Leman Z.** (2023). A Review of Natural Fiber-Based Filaments for 3D Printing: Filament Fabrication and Characterization, *Materials*, 16 (11), art. no. 4052, DOI: 10.3390/ma16114052.
8. Ahmad M.N., Ishak M.R., Mohammad Taha M., Mustapha F., **Leman Z.** (2023). Investigation of ABS–oil palm fiber (*Elaeis guineensis*) composites filament as feedstock for fused deposition modelling, *Rapid Prototyping Journal*, 29 (5), pp. 897 – 909, DOI: 10.1108/RPJ-05-2022-0164.
9. Ahmad, M.N., Ishak M.R., Mohammad Taha, M., Mustapha, F., **Leman, Z.** (2023). Mechanical, thermal and physical characteristics of oil palm (*Elaeis Guineensis*) fiber reinforced thermoplastic composites for FDM – Type 3D printer, *Polymer Testing*, 120, 107972, DOI: 10.1016/j.polymertesting.2023.107972.
10. Delgoshaei, A., Beighzadeh, R., Arffin, M.K.A.B.M., **Leman, Z.**, Ali, A. (2023). Forecast Innovative Development Level in Green Supply Chains Using a Comprehensive Fuzzy Algorithm, *International Journal of Fuzzy Systems*, 2023, 25(2), pp. 880–895, DOI: 10.1007/s40815-022-01416-7.
11. Bobba S., Babu B.H., Rao M.S., **Leman Z.** (2023). The consequences of hot deformation and control cooling on the microstructure of medium carbon microalloyed steel – 38MnSiVS5 grade, *Materials Today: Proceedings*, DOI: 10.1016/j.matpr.2023.04.290.

12. Thulasi M., Faieza A.A., Azfanizam A.S., **Leman Z.** (2023). Determination Of Process Variability By Using Triangular Fuzzy Number To Minimize Production Lead Time In A Dynamic Value Stream Mapping, *ASEAN Engineering Journal*, 13 (1), pp. 163 - 168, DOI: 10.11113/aej.V13.18574.
13. Khean, C.C., **Leman, Z.**, Adam, N.M., Supeni, E.E. (2023). Indoor Climates and Energy Consumption by Air Conditioning System in a Learning Resource Centre in Malaysia, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2023, 102(2), pp. 33–41, DOI: 10.37934/arfmts.102.2.3341.
14. Budati, S., **Leman, Z.**, Sulaiman, M.H., Hanim, M.A.A., Ghazali, M.J. (2023). An investigation into the physical, mechanical, tribology, thermal and durability performance of commercial brake material for rail transportation, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, DOI: 10.1177/13506501231151719.
15. Ahmad, M.N., Ishak, M.R., Taha, M.M., Mustapha, F., **Leman, Z.** (2023). Finite element analysis of oil palm fiber reinforced thermoplastic composites for fused deposition modelling, *Materials Today: Proceedings*, 2023, 74, pp. 509–512, DOI: 10.1016/j.matpr.2022.12.052.
16. Hanim Mohamed Ariff, Azmah, Dele-Afolabi, Temitope T., Hossain Rafin, Tahrir, Jung, Dong-Won, **Leman, Zulkiflle**, Anas Md Rezali, Khairil, Calin, Recep. (2023). Temporary sound barrier system from natural fiber polymeric composite, *Materials Today: Proceedings*, 2023, 74, pp. 438–449, DOI: 10.1016/j.matpr.2022.11.142.
17. Delgoshaei, A., Ariffin, M.K.A.B.M., **Leman, Z.** (2022). An Effective 4–Phased Framework for Scheduling Job-Shop Manufacturing Systems Using Weighted NSGA-II, *Mathematics*, 2022, 10(23), 4607, DOI: 10.3390/math10234607.
18. Saad S.B., Salman S.D., **Leman Z.**, Alkbir M.F. (2022). Characterization Of Sago Palm-Carbon Fibre Reinforced Epoxy Hybrid Composites, *Journal of Engineering and Sustainable Development*, 26 (6), pp. 23 - 29, DOI: 10.31272/jeasd.26.6.3.
19. Ahmad, M.N., Ishak, M.R., Taha, M.M., Mustapha, F., **Leman, Z.** (2022). Rheological Properties of Natural Fiber Reinforced Thermoplastic Composite for Fused Deposition Modeling (FDM): A Short Review, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2022, 98(2), pp. 157–164, DOI: 10.37934/arfmts.98.2.157164.
20. Abidin, M.H.Z., **Leman, Z.**, Abidin, Z., Yusof, M., Ismail, M.Y. (2022). Scrutinizing the impact of essential lean methods on sustainable performance in malaysian manufacturing firms, *Jurnal Teknologi*, 2022, 84(5), pp. 11–25, 10.11113/jurnalteknologi.v84.18413.
21. Abidin, M.H.Z., **Leman, Z.**, Abidin, Z., Yusof, M., Khalili, A. (2022). Lean impact on manufacturing productivity: a case study of industrialized building system (ibs) manufacturing factory, *Jurnal Teknologi*, 2022, 84(4), pp. 65–77, DOI: 10.11113/jurnalteknologi.v84.18156.
22. Bobba, S., Selvamuthukumar, M., Harishbabu, B., **Leman, Z.** (2022). Solar-Based Mosquito Trap for Household Purposes, *International Journal of Social Ecology and Sustainable Development*, 2022, 13(1), DOI: 10.4018/IJSESD.288536.
23. Sherwani, S.F.K., Salit, M.S., Zainudin, E.S.B., **Leman, Z.**, Khalina, A. (2022). Physical and flammability properties of treated sugar palm fibre reinforced polylactic acid composites, *Journal of Industrial Textiles*, 2022, 52, DOI: 10.1177/15280837221133574.
24. Nor, N.A.M., Baharudin, B.T.H.T., **Leman, Z.**, Ariffin, M.K.A.M. (2022). Correlation Between Cutting Force and Residual Stress in Dry End-Milling of Inconel HX, *International Journal of Integrated Engineering*, 2022, 14(6), pp. 47–54, DOI: 10.30880/ijie.2022.14.06.005.
25. Mohd Nor, N.A., Baharudin, B.T.H.T., **Leman, Z.**, Mohd Ariffin, M.K.A. (2022). Cutting Force in Dry Slot-Milling of Hastelloy X, *Lecture Notes in Mechanical Engineering*, 2022, pp. 1–7, DOI: 10.1007/978-981-19-2890-1_1.
26. Rashid, B., Razali, N., **Leman, Z.**, Jawaid, M. (2022). Single Fiber Test Behavior of Lignocellulose Sugar Palm Fibers: Effect of Treatments, *Key Engineering Materials*, Volume 925, Pages 37 – 46, DOI: 10.4028/p-58u653.
27. Ahmad M.N., Ishak M.R., Mohammad Taha M., Mustapha F., **Leman, Z.**, Anak Lukista D.D., Irianto, Ghazali I. (2022). Application of Taguchi Method to Optimize the Parameter of Fused Deposition Modeling (FDM) Using Oil Palm Fiber Reinforced Thermoplastic Composites, *Polymers*, 14 (11), art. no. 2140, DOI: 10.3390/polym14112140.
28. Arunasalam M., **Leman, Z.**, Baharudin B.T.H.T.B., Sulaiman S.B., Anthony Das C.S. (2022). Challenges in Minimizing Copper Dissolution for Lead Free Wave Soldering in Surface Mount Technology Going Towards Green Manufacturing, *International Journal of Precision Engineering and Manufacturing - Green Technology*, 9 (2), pp. 645 - 660, DOI: 10.1007/s40684-020-00298-0.
29. Sherwani S.F.K., Sapuan S.M., **Leman, Z.**, Zainudin E.S., Khalina A. (2022). Effect of alkaline and benzoyl chloride treatments on the mechanical and morphological properties of sugar palm fiber-

- reinforced poly(lactic acid) composites, *Textile Research Journal*, 92 (3-4), pp. 593 – 607, DOI: 10.1177/004051752111041878.
30. Ilangovan M., Guna V., Hu C., Takemura A., **Leman, Z.**, Reddy N. (2021). Dehulled coffee husk-based biocomposites for green building materials, *Journal of Thermoplastic Composite Materials*, 34 (12), pp. 1623 – 1638, DOI: 10.1177/0892705719876308.
 31. Sabbar H.M., **Leman, Z.**, Shamsudin S., Tahir S.M., Jaafar C.N.A., Ariff A.H.M., Zahari N.I., Rady M.H. (2021). The effect of solid-state processes and heat treatment on the properties of AA7075 aluminum waste recycling nanocomposite, *Materials*, 14 (21), art. no. 6667, DOI: 10.3390/ma14216667.
 32. Ahmad M.N., Ishak M.R., Taha M.M., Mustapha F., **Leman, Z.** (2021). Rheological and morphological properties of oil palm fiber-reinforced thermoplastic composites for fused deposition modeling (FDM), *Polymers*, 13 (21), art. no. 3739, DOI: 10.3390/polym13213739.
 33. Sherwani S.F.K., Zainudin E.S., Sapuan S.M., **Leman, Z.**, Khalina A. (2021). Physical, mechanical, and morphological properties of treated sugar palm/glass reinforced poly(Lactic acid) hybrid composites, *Polymers*, 13 (21), art. no. 3620, DOI: 10.3390/polym13213620.
 34. Sherwani S.F.K., Sapuan S.M., **Leman, Z.**, Zainudin E.S., Khalina A. (2021). Physical, Mechanical and Morphological Properties of Sugar Palm Fiber Reinforced Poly(lactic acid) Composites, *Fibers and Polymers*, 22 (11), pp. 3095 – 3105, DOI: 10.1007/s12221-021-0407-1.
 35. Amelia J.J.N., Zuhri M.Y.M., **Leman, Z.**, Zahari N.I., As'arry A., Ilyas R.A. (2021). Quasi-static compression properties of bamboo and pvc tube reinforced polymer foam structures, *Polymers*, 13 (20), art. no. 3603, DOI: 10.3390/polym13203603.
 36. Msebawi M.S., **Leman, Z.**, Shamsudin S., Tahir S.M., Aiza Jaafar C.N., Ariff A.H.M., Zahari N.I., Abdellatif A. (2021). Production of aluminum AA6061 hybrid nanocomposite from waste metal using hot extrusion process: Strength performance and prediction by RSM and random forest, *Materials*, 14 (20), art. no. 6102, DOI: 10.3390/ma14206102.
 37. Sherwani S.F.K., Zainudin E.S., Sapuan S.M., **Leman, Z.**, Abdan K. (2021). Mechanical properties of sugar palm (*Arenga pinnata* wurmb. merr)/glass fiber-reinforced poly(lactic acid) hybrid composites for potential use in motorcycle components, *Polymers*, 13 (18), art. no. 3061, DOI: 10.3390/polym13183061.
 38. Rahamaddulla S.R.B., **Leman, Z.**, Baharudin B.T.H.T.B., Ahmad S.A. (2021). Conceptualizing smart manufacturing readiness-maturity model for small and medium enterprise (SME) in Malaysia, *Sustainability (Switzerland)*, 13 (17), art. no. 9793, DOI: 10.3390/su13179793.
 39. Msebawi M.S., **Leman, Z.**, Shamsudin S., Tahir S.M., Jaafar C.N.A., Ariff A.H.M., Zahari N.I., Rady M.H. (2021). The effects of CuO and SiO₂ on aluminum AA6061 hybrid nanocomposite as reinforcements: A concise review, *Coatings*, 11 (8), art. no. 972, DOI: 10.3390/coatings11080972.
 40. Nor N.A.M., Baharudin B.T.H.T., Ghani J.A., Ariffin M.K.A.M., **Leman, Z.**, Ismail N., Ginting A. (2021). Effect of Increasing Spindle Speed at a Constant Chip Load on Cutting Force Behaviour of Hastelloy X, *International Journal of Automotive and Mechanical Engineering*, 18 (2), pp. 8658 – 8667, DOI: 10.15282/ijame.18.2.2021.03.0659.
 41. Sabbar H.M., **Leman, Z.**, Shamsudin S.B., Tahir S.M., Aiza Jaafar C.N., Azmah Hanim M.A., Ismsrribie Z.N., Al-Alimi S. (2021). AA7075-ZrO₂ nanocomposites produced by the consecutive solid-state process: A review of characterisation and potential applications, *Metals*, 11 (5), art. no. 805, DOI: 10.3390/met11050805.
 42. Rabby M.I.I., Masuri S.U., Kamal A.S.F.S., **Leman, Z.**, Hairuddin A.A., Aziz N.A. (2021). Flow characteristics of disk bypass pipeline inspection gauge (Pig) in natural gas pipelines using computational fluid dynamics, *CFD Letters*, 13 (4), pp. 11 – 37, DOI: 10.37934/cfdl.13.4.1137.
 43. Bobba S., **Leman, Z.**, Zainuddin E.S., Sapuan S.M. (2021). Impact and internal pressure failure of E-glass and S-glass epoxy composite elbow pipe joints influenced by sea water, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 235 (1), pp. 116 – 123, DOI: 10.1177/0954408920948177.
 44. Bobba S., **Leman, Z.**, Harish Babu B. (2021). Environmental effects on the mechanical properties of E-glass and S-glass fiber epoxy composite ring specimens used in aircraft fuel pipes, *INCAS Bulletin*, 13 (4), pp. 17 – 24, DOI: 10.13111/2066-8201.2021.13.4.2.
 45. Ngah A.R., Salman S.D., **Leman, Z.**, Sapuan S.M., Alkbir M.F.M., Januddi F. (2021). Effects of drilling parameters on delamination of kenaf-glass fibre reinforced unsaturated polyester composites, *Journal of Industrial Textiles*, DOI: 10.1177/15280837211062053.
 46. Nor N.A.M., Kamarulzaman N.F., Zakaria N.A.S., Awang N., Baharudin B.T.H.T., Ariffin M.K.A.M., **Leman, Z.** (2021). Effect of Spindle Speed and Feed Per Tooth in Feed Rate Perspective on Inconel HX Cutting Force, *Journal of Mechanical Engineering*, 18 (2), pp. 65 – 76.

47. Bobba S., Mukkollu S.R., **Leman, Z.**, Bachina H.B. (2021). Experimental investigation on the effect due to mould vibrations on mechanical and metallurgical properties of aluminum alloy (A-1050), *International Journal of Surface Engineering and Interdisciplinary Materials Science*, 9 (1), pp. 77 – 86, DOI: 10.4018/IJSEIMS.2021010105.
48. Kirmasha Y.K., Sharba M.J., **Leman, Z.**, Sultan M.T.H. (2020). Mechanical performance of unstitched and silk fiber-stitched woven kenaf fiber-reinforced Epoxy composites, *Materials*, 13 (21), art. no. 4801, pp. 1 – 16, DOI: 10.3390/ma13214801.
49. Bobba, S., **Leman, Z.**, Zainudin, E.S., Sapuan, S.M. (2020). Low Velocity Impact and Internal Pressure Behaviors of Unaged E-Glass and S-Glass/Epoxy Composite Elbow Pipe Joints, *Journal of Pipeline Systems Engineering and Practice*, 11(4), 04020043. DOI: 10.1061/(ASCE)PS.1949-1204.0000493.
50. Bobba S., **Leman, Z.**, Zainudin E.S., Sapuan S.M. (2020). Characterisation of the tensile and fracture properties of filament wound natural fibre rings, *AIP Conference Proceedings*, 2284, art. no. 020015, DOI: 10.1063/5.0027248.
51. Syaqira S S.N., **Leman, Z.**, Sapuan S.M., Dele-Afolabi T.T., Azmah Hanim M.A., Budati S. (2020). Tensile strength and moisture absorption of sugar palm-polyvinyl butyral laminated composites, *Polymers*, 12 (9), art. no. 1923, DOI: 10.3390/POLYM12091923.
52. Shahroze, R.M., Ishak, M.R., Salit, M.S., **Leman, Z.**, Chandrasekar, M., Munawar, N.S.Z., Asim, M. (2019). Sugar palm fiber/polyester nanocomposites: Influence of adding nanoclay fillers on thermal, dynamic mechanical, and physical properties, *Journal of Vinyl and Additive Technology*, article in press, DOI: 10.1002/vnl.21736.
53. Mukhtar, I., **Leman, Z.**, Zainudin, E.S., Ishak, M.R. (2020). Effectiveness of Alkali and Sodium Bicarbonate Treatments on Sugar Palm Fiber: Mechanical, Thermal, and Chemical Investigations, *Journal of Natural Fibers*, Volume 17, Issue 6, 2 June 2020, Pages 877-889. DOI: 10.1080/15440478.2018.1537872.
54. Mohd Nor, N.A., Baharudin, B.T.H.T., Ghani, J.A., **Leman, Z.**, Ariffin, M.K.A. (2020). Effect of chip load and spindle speed on cutting force of Hastelloy X, *Journal of Mechanical Engineering and Sciences*, Volume 14, Issue 1, March 2020, Pages 6497-6503, DOI: 10.15282/jmes.14.1.2020.24.0509.
55. Huzaifah, M.R.M., Sapuan, S.M., **Leman, Z.**, Ishak, M.R. (2019). Effect of Soil Burial on Physical, Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites, *Fibers and Polymers*, Volume 20, Pages 1893–1899, DOI: <https://doi.org/10.1007/s12221-019-9159-6>.
56. Bobba, S., **Leman, Z.**, Sapuan, S.M., Zainudin, E.S. (2019). Analysis on the Impact Behaviors of E and S-glass Composite Elbow Pipe Joints Exposed to Impact Loading Followed by Axial Compression: Analysis on Impact and Compression of Elbow Joints, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, 9(3), pp. 14-25, DOI: 10.4018/IJMMME.2019070102.
57. Huzaifah, M.R.M., Sapuan, S.M., **Leman, Z.**, Ishak, M.R. (2019). Effect of Fibre Loading on the Physical, Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites, *Fibers and Polymers*, 20(5), pp. 1077-1084, DOI: 10.1007/s12221-019-1040-0.
58. Samani, M.A., Ismail, N., **Leman, Z.**, Zulkifli, N., (2019), Development of a conceptual model for risk-based quality management system, *Total Quality Management and Business Excellence*, 30(5-6), pp. 483-498, DOI: 10.1080/14783363.2017.1310617.
59. Huzaifah, M.R.M., Sapuan, S.M., **Leman, Z.**, Ishak, M.R., (2019). Comparative study of physical, mechanical, and thermal properties on sugar palm fiber (*Arenga pinnata (Wurmb) Merr.*) reinforced vinyl ester composites obtained from different geographical locations, *BioResources*, 14(1), pp. 619-637, DOI: 10.15376/biores.14.1.619-637.
60. Kassim, N., **Leman, Z.**, Baharudin, B.T.H.T., Aziz, F.A. (2019). Finite element analysis of rib cushion positioning for expanded polystyrene packaging, *Journal of Advanced Manufacturing Technology*, 13 (Special Issue 1), pp. 105-117.
61. Bobba, S., **Leman, Z.**, Zainudin, E.S., Sapuan, S.M. (2019). Fluid flow and static structural analysis of E-glass versus S-glass fibre/epoxy reinforced composite pipe joints, *Agricultural Engineering International: CIGR Journal*, 21(4), pp. 56-63.
62. Mukhtar, I., **Leman, Z.**, Zainudin, E.S., Ishak, M.R. (2019). Hybrid and nonhybrid laminate composites of sugar palm and glass fibre-reinforced polypropylene: Effect of alkali and sodium bicarbonate treatments, *International Journal of Polymer Science*, Article no.1230592, DOI: 10.1155/2019/1230592.

63. Bobba, S., **Leman, Z.**, Zainudin, E.S., Sapuan, S.M. (2019). Hoop tensile strength behaviour between different thicknesses E-glass and S-glass FRP rings, *AIMS Materials Science*, 6(3), pp. 315-327, DOI: 10.3934/materci.2019.3.315.
64. Ammar, I.M., Muhammad Huzaifah, M.R., Sapuan, S.M., **Leman, Z.**, Ishak, M.R. (2019). Mechanical properties of environment-friendly sugar palm fibre reinforced vinyl ester composites at different fibre arrangements, *EnvironmentAsia*, 12(1), pp. 25-35.
65. Shahroze, R.M., Ishak, M.R., Sapuan, S.M., **Leman, Z.**, Chandrasekar, M., Asim, M. (2019). Effect of silica aerogel additive on mechanical properties of the sugar palm fiber-reinforced polyester composites, *International Journal of Polymer Science*, Article no.3978047, DOI: 10.1155/2019/3978047.
66. Chandrasekar, M., Ishak, M.R., Salit, M.S., **Leman, Z.**, Jawaid, M., Naveen, J. (2019). Mechanical properties of a novel fibre metal laminate reinforced with the Carbon, Flax, and Sugar Palm Fibres, *BioResources*, 13(3), pp. 5725-5739, DOI: 10.15376/biores.13.3.5725-5739.
67. Chandrasekar, M., Ishak, M.R., Sapuan, S.M., **Leman, Z.**, Jawaid, M., Shahroze, R.M. (2019). Effect of freezing temperature and stacking sequence on the mechanical properties of hybrid fibre metal laminates made with Carbon, Flax, and Sugar Palm Fibres, *BioResources*, 14(2), pp. 3042-3056, DOI: 10.15376/biores.14.2.3042-3056.
68. Mohd Nor, N.A., Mohd Alisjabana, S.S., Seloraji, G., Men, T.Y., Xian, T.J., Baharudin, B.T.H.T., Arifin, M.K.M., **Leman, Z.** (2019). Effect and optimization of cutting speed and depth of cut in half-immersion up-milling of 6061 aluminium alloy, *Journal of Mechanical Engineering*, 16(1), pp. 17-27.
69. Salman, S.D., **Leman, Z.** (2018). Physical, mechanical and ballistic properties of kenaf fiber reinforced poly vinyl butyral and its hybrid composites, Book Chapter in *Natural Fiber Reinforced Vinyl Ester and Vinyl Polymer Composites: Development, Characterization and Applications*, 22 June 2018, Elsevier Inc., pp. 249-263.
70. Ramli, N., Mazlan, N., Ando, Y., **Leman, Z.**, Abdan, K., Aziz, A.A., Sairy, N.A. (2018). Natural fiber for green technology in automotive industry: A brief review, *IOP Conference Series: Materials Science and Engineering*, 368(1), 012012.
71. Alkateb, M., Sapuan, S.M., **Leman, Z.**, Jawaid, M., Ishak, M.R. (2018). Quasi-static crush behaviour of environmentally friendly kenaf/wool epoxy composites elliptical tube, *Journal of Mechanical Engineering and Sciences*, 12(2), pp. 3671-3688.
72. Shahroze, R.M., Ishak, M.R., Salit, M.S., **Leman, Z.**, Asim, M., Chandrasekar, M. (2018). Effect of organo-modified nanoclay on the mechanical properties of sugar palm fiber-reinforced polyester composites, *BioResources*, 13(4), pp. 7430-7444.
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1. Foo Chee Hung, Lim Char Ching, Tan Weng Dung and **Zulkiflle Leman**, Technical Opinion Report- Glass Fiber Reinforced Polymer (GFRP), Construction Industry Development Board (CIDB), Construction Research Institute of Malaysia (CREAM), January 2015, ISBN: 978-967-5317-94-1.
2. Mohd Fauzi bin Ramlan et al., Modul Jati Diri, 2015, Pejabat Timbalan Naib Canselor (HEPA), UPM. ISBN: 978-967-344-459-5.
3. Mohd Fauzi bin Ramlan et al., Modul Pembangunan Akademik dan Sahsiaah Pelajar, 2015, Pejabat Timbalan Naib Canselor (HEPA), UPM. ISBN: 978-967-344-456-4.
4. Mohd Fauzi bin Ramlan et al., Modul Kepimpinan Mahasiswa, 2015, Pejabat Timbalan Naib Canselor (HEPA), UPM. ISBN: 978-967-344-457-1.
5. Mohd Fauzi bin Ramlan et al., Modul Community Policing, 2015, Pejabat Timbalan Naib Canselor (HEPA), UPM. ISBN: 978-967-344-458-8.

Patents

1. B.T. Hang Tuah Baharudin, Napsiah Ismail, **Zulkiflle Leman** and Jamiluddin Jaafar, (2013). Portable constant load tensile-corrosion test system, PI 2013701936
2. **Zulkiflle Leman** and Suhad D. Salman, Protective Ballistic Helmet, (2016). PI 2016700771

Conferences/Seminars/Exhibitions

No.	Name and year	Title	Organiser and (venue)	Role
1.	Pameran Penyelidikan dan Sesi Jaringan Bersama Industri 2016	Sugar Palm Fiber (Ijuk): Eco-Friendly Friction Composites	Faculty of Engineering, UPM	Presenter

2.	Pameran Rekacipta, Penyelidikan dan Inovasi 2016	Protective Ballistic Helmet	UPM	Presenter
3.	SEARCA Regional Professorial Chair Lecture		UPM	Chairperson
4.	Pelancaran Program Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau (Sugar Palm) 2015	Kajian Pokok Enau di UPM	UPM, UCTC, KPT, NBOS (Bahau, N. Sembilan)	Speaker
5.	17th International Conference on Advances in Materials & Processing Technologies (AMPT2014)	Experimental Comparison between Two Types of Hybrid Composite Materials in Compression Test	Saudi Aramco, Masdar, QEERI, PMU, ASM, SSPC, KATS, QU (Dubai, UAE)	Speaker
6.	Bengkel Penarafan Universiti Dunia: QS World University Ranking Siri 2		Pejabat Perancangan Strategi dan Komunikasi, UPM	Participant
7.	6 th AUN/SEED-Net Regional Conference (RC) 2014	Research and Education in Materials Engineering in UPM	AUN/SEED-Net (Kyoto, Japan)	Invited speaker
8.	16th International Conference on Advances in Materials & Processing Technologies (AMPT2013)	Incremental Sheet Forming (ISF) of AISI 316 Stainless Steel Sheet Using CNC Milling Machine	NTUST (Taipei, China)	Speaker
9.	International Conference on Advances in Mechanical and Manufacturing Engineering 2013		UPM, ICAM (Kuala Lumpur)	Participant
10.	Regional Conference on Mechanical and Manufacturing Engineering		AUN/SEED-Net, UPM (Kuala Lumpur)	Participant
11.	The 2nd International Conference on Chemical, Material and Metallurgical Engineering (ICCMME 2012)	Interfacial Debonding Force and Shear Strength of Sugar Palm (Arenga Pinnata) Fiber Reinforced Composites by Pull-Out Test	Wuhan University of Science and Technology, China Auckland University of Technology, NTZ Guangxi University, China Hong Kong Industrial Technology Research Centre (Kunming, China)	Speaker
12.	Seminar Value Management		Persatuan Pentadbir UPM (Putrajaya)	Participant
13.	Innovation in Polymer Science and Technology 2011	Development of High Performance Sugar Palm Fibre Composites: Fibre Modification by Resin Impregnation	Indonesian Polymer Association (Bali, Indonesia)	Speaker
14.	Innovation in Polymer Science and Technology 2011	Sugar Palm Fibre-Reinforced Unsaturated Polyester Composite Interface	Indonesian Polymer Association (Bali, Indonesia)	Speaker



Characterisation by
Pull-Out Test

15.	Regional Symposium on Engineering & Technology (2011)		MySET, FEIIC, UPM, UniKL (Kuching, Malaysia)	Participant
16.	Konvensyen Pengetua Kolej Kediaman (2011)		MAPUM, UiTM, KPT (Shah Alam, Malaysia)	Participant
17.	8th International Conference on Composite Science and Technology (2011)		UPM, AUS (Kuala Lumpur)	Participant
18.	World Engineering Congress 2010		MySET, FEIIC, UPM (Kuching, Malaysia)	Participant
19.	Manufacturing Engineering, Automation and Robotics Conference, World Engineering Congress (2007)	Biological Fiber Surface Modifications and Tensile Strength of Sugar Palm Fiber-Reinforced Epoxy Composites	UPM, IEM (Penang, Malaysia)	Speaker
20.	20th International Conference on Advances in Materials & Processing Technologies (AMPT2017)	Autoclave Process Parameter Optimisation for Composite Aircraft Panels	VIT, Chennai, India	Speaker
21.	2 nd International Conference on Advances in Mechanical and Manufacturing Engineering (ICAM2E-2019)		Langkawi, Malaysia	Participant
22.	11th AUN/SEED-Net Regional Conference on Mechanical and Manufacturing Engineering 2020 (RCMEManuE2020)		Online	Participant
23.	International Conference on Sugar Palm and Allied Fibre Polymer Composites 2021 (SAPC2021)		Online	Participant
24.	The 15th Regional Conference on Energy Engineering (RCEnE2022) and the 13th International Conference on Thermofluid 2022	Failure Investigation of 132 kV Power Transmission Composite Crossarms	Yogyakarta, Indonesia	Speaker
25.	International Conference on Sugar Palm and Natural Fibre Polymer Composites 2023 (SNPC2023)		Online	Participant
26.	International Conference on Advances in Materials & Processing Technologies (AMPT 2023)	Acoustic Simulation Of Natural Fibre Composites As Temporary Acoustic	Bangi, Selangor	Speaker

27.	International Conference on Advances in Materials & Processing Technologies (AMPT 2023)	Barrier For Construction Sites Improvement Of The New Product Introduction (NPI) For Ultrasound Endoscope	Bangi, Selangor	Speaker
28.	International Conference of Advanced Engineering Materials and Composites (ICAEMC2024)	Investigation on Wear Behaviour of Sugar Palm Fiber-Based Brake Pad Composite for Railway Brake Pad Applications	UPM	Speaker
29.	Modern Technologies in Industrial Engineering 2024 (ModTech2024)	Quality and Reliability of Thermal Interface Material (TIM) Performance After Ageing Shelf Life	Putrajaya	Speaker

Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	The Effects of Processing Methods on the Mechanical Properties of Thermoplastics (leader)	10,000	2000	Short-term research grant UPM
2.	Development of Ijuk (Arenga Pinnata) Fiber Biocomposite for Small Boat Application (leader)	190,000	2007-2009	Sciencefund
3.	Thermomechanical properties of sugarcane bagasse fibre reinforced unplasticized PVC composites (co-researcher)	77,000	2007-2010	RUGS UPM
4.	Characterisation of Interfacial Shear Strength of Sugar Palm Fibre Reinforced Polymer Composites By Single Fibre Pull-Out Tests (leader)	65,000	2011-2013	RUGS UPM
5.	Flame Retardancy and Mechanical Properties of Sugar Palm Fibre Reinforced Composite Containing Aluminium Trihydroxide (ATH) (leader)	15,000	2012-2014	GERAN PUTRA (IPS)
6.	Viability Of Microwave Sintering Process To Produce Ceramic Tool Inserts (co-researcher)	15,000	2012-2014	GERAN PUTRA (IPS)
7.	Determination of Low and High Velocity Impact Properties of Kenaf-Kevlar Reinforced Hybrid Composites (leader)	15,000	2014-2016	GERAN PUTRA (IPS)
8.	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)	113,800	2015-2018	FRGS KPT
9.	Development of glass/sugar palm fibre reinforced polyurethane hybrid composites for automotive anti-roll bar (co-researcher)	556,800	2015-2016	GERAN PUTRA (IPB)
10.	Characteristics of Tribological Properties of Sugar Palm Fiber reinforced Composite Materials (leader)	15,000	2015-2017	GERAN PUTRA (IPS)
11.	Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau di Kg Kuala Jempol (co-researcher)	156,100	2015-2016	KPT UCTC NBOS

12.	Glass and sugar palm fibre reinforced polypropylene hybrid composite for automotive side door impact beam (leader)	20,000	2016-2018	GERAN PUTRA (IPS)
13.	Effect Of Chip Load And Spindle On The Cutting Force Of An End Milling Process (co-researcher)	20,000	2017-2019	GERAN PUTRA (IPS)
14.	Repair of Damaged E-Glass Fiber Reinforced Pipe Joints Due to Pressure Impact by Using S-2 Glass Composites (leader)	20,000	2017-2019	GERAN PUTRA (IPS)
15.	Calcium Content, Water Absorption and Strength Analysis of Composite Crossarms (leader)	14,831.52	2017-2018	Geran Industri
16.	Effect Of Various Metal Surface Pre-treatments On Mechanical Properties Of The Hybrid Flax/Carbon Fibre Metal Laminate (FML) (co-researcher)	20,000	2018-2019	GERAN PUTRA (IPB)
17.	Material Characterization Of Failed Pultruded Composites Products (co-researcher)	25,000	2018-2020	GERAN PUTRA (IPS)
18.	Simulation of Bypass PIG (co-researcher)	44,100	2019-2021	Geran Industri
19.	Investigation of the Filament Wounded Sandwich Structures as a Substitute to the Existing Pultruded Glass Fibre Reinforced Polymer Composite in the Cross-Arm Structure of the High Transmission Towers (co-researcher)	149,000	2019-2023	FRGS KPT
20.	Synthesizing and Characterization of Nano Silica and Nano Copper-Reinforced Aluminum Alloy (AA6061) Nanocomposites Matrix (leader)	25,000	2020-2022	GERAN PUTRA (IPS)
21.	Synthesis and characterization of various types of MAX phase/MXene materials applicable to heat transfer and energy storage (co-researcher)	120,000	2020-2024	GERAN PUTRA (IPB)
22.	A 5-Phase Fuzzy Framework for Eye Cancer Detection (co-researcher)	30,000	2020-2024	GERAN PUTRA (IPM)
23.	Cognitive ergonomics application in manufacturing sectors for potential work performance predictive model design (co-researcher)	40,000	2022-2025	GERAN PUTRA (IPM)

Awards/Recognitions

No.	Name of awards	Title	Award Authority	Year
1.	Silver Medal	Development of Ijuk (<i>Arenga Pinnata</i>) Fiber Biocomposite for Small Boat Application	(PRP10) Invention, Research and Innovation Exhibition UPM	2010
2.	Best Oral Presentation	Postgraduate Seminar on Natural Fibre Composites	Faculty of Engineering	2008
3.	Excellence Service		UPM	2004, 2005, 2007, 2009-2015
4.	Excellence Teaching		Faculty of Engineering	2001, 2007-2009, 2016, 2017
5.	Best Student Poster Presenter	Development of high performance of sugar palm (<i>Arenga pinnata</i>) fibre composite via resin impregnation	Royal Society of Chemistry, UK	2011



6.	Certificate	Supervision of PhD student who graduated on time	UPM	2015
7.	Best Final Year Project	Inter-laminar Shear Strength of Kenaf/Kevlar Fibre Reinforced Epoxy/Polyester Multi-layered Hybrid Composite	Faculty of Engineering	2014
8.	Best Student Paper	Postgraduate Symposium on Biocomposite Technology	Faculty of Engineering and INTROP	2015
9.	2 nd Place	Tribology Poster Competition	University Malaya, MYTRIBOS	2016
10.	Bronze Medal	Team Table Tennis SUKUM 35	USM	2010
11.	Bronze Medal	Team Table Tennis SUKUM 36	UTEM	2011
12.	Bronze Medal	Team Table Tennis SUKUM 37	UUM	2012
13.	Bronze Medal	Team Table Tennis SUKUM 40	UiTM	2015
14.	Bronze Medal	Team Table Tennis SUKUM 41	USIM	2016
15.	Silver Medal	Protective Ballistic Helmet	(PRPi16) Invention, Research and Innovation Exhibition UPM	2016
16.	Silver Medal	Sugar Palm-Based Products	(PRPi16) Invention, Research and Innovation Exhibition UPM	2016
17.	Silver Medal	Table Tennis SUKUM 42- Men's Double Veteran	UPSI	2017
18.	Recipient	Insentif Makalah Jurnal 2016	UPM	2017
19.	Recipient	Inisiatif Pemerkasaan Penerbitan Jurnal	UPM	2020

Professional Services/Consultation/Extension

No	Year	Title	Authority	Role
1.	2016	MTCP ASEAN Scholarship Program.	KPT	Panel interviewer
2.	2016	Program Biasiswa Kementerian Pendidikan Tinggi	KPT	Panel interviewer
3.	2014	Program "Technical Opinion" CIDB, Produk: Glass Fiber Reinforced Polymer (GFRP)	CREAM	Panel penilai teknikal
4.	2010	Tenaga Pengajar Kursus "Engineering Design"	UMPET	Tenaga pengajar
5.	2005	Master of Engineering Management (Bintulu):	UPM	Tenaga pengajar
6.	2013	Master of Manufacturing Systems Engineering (Kuantan)	UPM	Tenaga pengajar
7.	2012	Master of Engineering Management (Kuwait)	UPM/UPMET	Tenaga pengajar
8.	2010-	Master of Manufacturing Systems Engineering (Kulim)	UPM	Tenaga pengajar
9.	2014	Master of Business Administration	Putra Business School	Tenaga pengajar
10.	2015	3rd International Conference on Recent Advances in Automotive Engineering & Mobility Research (ReCAR) 2015	UKM	Conference reviewer
11.	2015	Pertandingan F1 in Schools	SMK King George V	Penasihat teknikal



12.	2015	International Conference on Mechanical, Manufacturing, Modeling and Mechatronics (IC4M 2016)	HKSME	Conference reviewer
13.	2014	Asas Pemprosesan Pultrusi Bagi Komposit Diperkukuh Bahan Semulajadi	Penerbit UniMAP	Penilai manuskrip
14.	2013	International Conference on Advances in Mechanical and Manufacturing Engineering	UPM	Conference reviewer
15.	2013-	Penilaian Geran Penyelidikan Putra	UPM	Panel penilai
16.	2013-	Penilaian Geran Kementerian Pengajian Tinggi	UPM	Panel penilai
17.	2012	15th International Conference on Advances in Materials & Processing Technologies	University of Wollongong, NSW Australia	Conference reviewer
18.	2012	JACTIM Research Proposal Competition	MJIIT	Reviewer
19.	2012	International Journal of Mechanical and Materials Engineering	UM	Paper reviewer
20.	2011	Program Pengajian Universiti Putra Malaysia	UPM	Panel penilai
21.	2011	4th USM-JIRCAS Joint International Symposium	USM	Conference reviewer
22.	2011	Jurnal Sains Malaysiana	UKM	Pewasit
23.	2014-	International Journal of Advanced Manufacturing Technology	Springer	Journal reviewer
24.	2015	Sarjana Kejuruteraan (Mekanik)	UM	Penilai program akademik
25.	2015	Master Kejuruteraan Perisian	UPM	Penilai program akademik
26.	2015	IEEE Transactions on Engineering Management	IEEE	Journal reviewer
27.	2015	International Journal of Materials Engineering Innovation	Inderscience Publishers	Journal reviewer
28.	2013	International Journal of Shipping and Transport Logistics	Inderscience Publishers	Journal reviewer
29.	2013, 2015	Bioresources	NCSU	Journal reviewer
30.	2011	International Journal of Polymer Science	Hindawi Publishing Corporation	Journal reviewer
31.	2011	Scientific Research and Essays	Academic Journals	Journal reviewer
32.	2016	International Journal of Business and Finance Management Research	BluePen Journals	Journal reviewer
33.	2016	Structural Engineering and Mechanics, <i>An International Journal</i>	Techno Press	Journal reviewer
34.	2016	Computers and Concrete, <i>An International Journal</i>	Techno Press	Journal reviewer
35.	2016	Smart Structures and Systems, <i>An International Journal</i>	Techno Press	Journal reviewer
36.	2016	Program Bachelo Kejuruteraan Perniagaan, Fakulti Pengurusan Industri	UMP	Penilai luar
37.	2016	International Journal of Logistics System and Management	Inderscience Publishers	Journal reviewer
38.	2016	International Journal of Advanced Materials and Production	APSE Press	Editor
39.	2016, 2017, 2018	Composites Part B	Elsevier	Journal reviewer
40.	2016	Engineering Science and Technology, an International Journal	Elsevier	Journal reviewer
41.	2016	International Journal for Engineering and Technology	FEIC	Journal reviewer

42.	2016	International Journal of Manufacturing Technology and Management	Inderscience Publishers	Journal reviewer
43.	2016	Reference Module in Materials Science and Materials Engineering	Elsevier Inc.	Review Editor
44.	2016	Journal of Advanced Research in Computing and Applications	Akademia Baru	Journal reviewer
45.	2017	Malaysian Construction Research Journal	CREAM CIDB	Editorial Advisory Board
46.	2017	Regional Conference in Mechanical and Manufacturing Engineering	AUN/SEED-Net	Conference reviewer
47.	2017	Geran Putra: Inisiatif Putra Berkumpulan-IPB, Pembentangan Laporan Akhir "Aerospace Composite Structures Reliability Through Smart Material Applications"	UPM	Panel penilai
48.	2017	Composite Structures	Elsevier	Journal reviewer

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Mohamad Ridzwan bin Ishak (GS26467)	Enhancement of Physical Properties of Sugar Palm (<i>Arenga Pinnata Merr.</i>) Fibre-Reinforced Unsaturated Polyester Composites Via Vacuum Resin Impregnation	Graduated
2.	Afsaneh Nouri Houshyar (GS31932)	Integrated Bi-Objective Model For Cellular Manufacturing System	Graduated
3.	Mohaiman Jaffar Kashkol (GS38220)	Monotonic and Fatigue Properties of Kenaf/Glass Fiber-Reinforced Hybrid Composites	Graduated
4.	Suhad Dawood Salman (GS37260)	Kenaf-Aramid Fibre-Reinforced Polyvinyl Butyral Hybrid Composites For Military Helmet	Graduated
5.	Bushra Rashid Mohammed (GS38642)	Characterization and Development of Sugar Palm-Filled Phenolic Composites As Friction Materials	Graduated
6.	Mageswaran a/l Arunasalam (GS36238)	Process Improvement In Lead Free Wave Soldering Processes In Surface Mount Technology	Graduated
7.	Mohd Shahrizan bin Yusoff (GS38448)	Synergistic Model Development for Lean Manufacturing Implementation at Small and Medium Enterprises in Malaysia	Graduated
8.	Aini Masmira binti A. Manaf (GS40597)	Correlation Between Quality Management System (QMS) Principles and Halal Certification Process Requirements In Halal Food and Beverage SMEs In Kuala Lumpur and Selangor	Graduated
9.	Mukhtar Isma'ila (GS46127)	Glass/Sugar Palm [<i>Arenga Pinnata (Wurmb. Merr.)</i>] Fibre-Reinforced Polypropylene Hybrid Composite Automotive Side Door Impact Beam Composite For Automobile Applications	Graduated
10.	Sujith Bobba (GS46375)	Mechanical Characterization of S-Glass and E-Glass Reinforced Epoxy Composite Elbow Pipe Joints Submerged in Sea Water	Graduated
11.	Normah binti Kassim (GS47084)	Development of Design Specifications for Expanded Polystyrene (EPS) in Product Packaging	Graduated
12.	Ekmal Hakim bin Zainuddin (GS48709)	Ergonomis Consideration in the Isolator Design of Highly Potent Active Pharmaceutical Ingredients (HAPI) Products	Completed
13.	Muhammad Harith bin Zainal Abidin (GS52850)	Scrutinizing the Impact Of Lean Methods And Tools on Sustainable Performance In Malaysian SMEs	Graduated

14.	Syed Radzi bin Rahamaddulla (GS54042)	Managing Uncertainties In Smart Manufacturing Environment Among SMEs	Graduated
15.	Msebawi Muntadher Sabah Abdul Hussein (GS56528)	Synthesizing and Characterization of Nano Silica and Nano Copper-Reinforced Aluminum Alloy (AA6061) Nanocomposites Matrix	Graduated
16.	Al Rubaiawi Huda Mohammed Sabbar (GS56529)	Characterization of Zirconium Oxide Nanoparticles-Reinforced Aluminum Alloy (Aa7075) Matrix Nanocomposites Via Hot Extrusion Process Followed by Ecap	Graduated
17.	Budati Sindhu (GS57819)	AI Algorithm for Process Parameters Optimization During the Drilling Process of Novel Green Composite in the Application of UAV (Unmanned Aerial Vehicles) Vehicles.	Ongoing
19.	Roziyati binti Abdullah (GS58238)	Assessment Framework For Effectiveness Of National Dual Training System From Company Perspective	Ongoing
20.	Nur Aziera binti Azman (GS64427)	Towards Efficient Maintenance Management: Smart And Active Compressed Air Piping System	Ongoing

PhD (Co-supervisor)

21.	Mahmoud Asad Samani (GS31897)	Development of A Conceptual Framework To Integrate Quality Management System and Risk Management System	Graduated
22.	Zohreh Molamohamadi (GS33361)	Development of A Two-Level Trade Credit Model With Shortage For Deteriorating Products Using Hybrid Metaheuristic Algorithm	Graduated
23.	Aidin Delgoshaei (GS33677)	Scheduling Dynamic Cellular Manufacturing Systems In The Presence of Cost Uncertainty Using Heuristic Method	Graduated
24.	Ridwan bin Yahaya (GS35511)	Mechanical and Ballistic Properties of Natural Fibre-Aramid Hybrid Laminated Composites	Graduated
25.	Jethesh Prabhakaran (GS31899)	New Approach In Slicing Process, As-Cut Quality Control and Manufacturing Cost Reduction In Sapphire Substrate Industry Using Takatori Multi Wire-Saw Machine	Ongoing
26.	Sairizal bin Misri (GS32397)	Structural Behavior of Filament Wound Kenaf Yarn Fibre Reinforced Unsaturated Polyester Composites	Graduated
27.	Saiful Nizal bin Amirudin (GS36339)	Introduction of Surface Mount Technology Concept Into Chip On Board Led Manufacturing Technology	Graduated
28.	Chng Ming Hui (GS35962)	Development of Refrigerant (R32) Flow Maldistribution Model for Microchannel Heat Exchanger	Graduated
29.	Hammajam A. Abba (GS39781)	Characterization of Millet Husk-Filled High Density Polyethylene and Polylactic Acid Composites	Graduated
30.	Mohamed Mohamed. M.Alkateb (GS41834)	Crushing Behavior of Kenaf Fiber-Reinforced Epoxy Composite Elliptical Tubes	Graduated
31.	Chandrasekar Muthukumar (GS46278)	Mechanical Properties of Fibre Metal Laminates Reinforced With Carbon, Flax and Sugar Palm Fibre-Based Composites	Graduated
32.	Muhammad Huzaifah bin Mohd Roslim (GS45811)	Development and Characterisation of Sugar Palm [Arenga Pinnata (Wurmb) Merr.] Fibre Reinforced Vinyl Ester Composites	Graduated
33.	Nor Aznan bin Mohd Nor (GS42003)	Effect of Chip Load and Spindle Speed on the Cutting Force of an End Milling Process	Graduated

34.	Natasha binti Ramli (GS47653)	Investigation on Mechanical and Thermal Properties of Hybrid Fiber Reinforced Poly-Lactic Acid (PLA) Sandwich Panel Structured Composite	Ongoing
35.	Thulasi a/p Manoharan (GS54381)	Dynamic Value Stream Mapping For Production Lead Time Improvement Using Fuzzy Triangular Analysis	Graduated
36.	Ali Raqee Abdulhadi (GS54912)	The Effect of Control on the Relationship Between Risk Management and Project Management	Graduated
37.	Sherwani Shah Faisal Khan (GS55328)	Development and Characterization of Hybrid and Non-Hybrid Laminate Composites of Sugar Palm and Glass Fibre Reinforced Polylactic Acid (PLA) For Motorcycles Parts	Graduated
38.	Mohammed Habil Hadi Mohammed (GS60619)	Developing A Software Based Control Mechanism Of Pellet Form 3d Printer Extruder System For Fgm Fabrication	Ongoing
39.	Mohd Nazri bin Ahmad (GS61628)	Additive Manufacturing Of Natural Fiber Reinforced Thermoplastic Composite For Fused Deposition Modeling (Fdm)	Ongoing

M.Sc with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Mohamad Ridzwan bin Ishak (GS22580)	Mechanical Properties of Treated and Untreated Woven Sugar Palm Fibre-Reinforced Unsaturated Polyester Composites	Graduated
2.	Sairizal bin Misri (GS22582)	Design and Fabrication of A Boat Using Sugar Palm Glass Fibre-Reinforced Unsaturated Polyester Composite	Graduated
3.	Mohd Yusoff bin Salleh (GS22567)	Mechanical and Physical Properties of Laminated Hybrid Sugar Palm and Glass Fibre-Reinforced Unsaturated Polyester Composites	Graduated
4.	Elham Falatoonitoosi (GS29067)	Development of Evaluation Model To Improve Green Supply Chain Management By Applying Dematel Technique	Graduated
5.	Majid Moayedfar (GS29736)	Tool Design and Parameter Optimization For Incremental Sheet-Forming Process	Graduated
6.	Abu Hatim bin Ibrahim (GS32474)	Effects of Flame-Retardant Agents on Mechanical Properties and Flammability of Impregnated Sugar Palm Fibre-Reinforced Polymer Composites	Graduated
7.	Samira Gholizadeh (GS36314)	Glass Fiber-Reinforced Polyester Composite Fatigue Crack Monitoring Using Acoustic Emission	Graduated
8.	Yasir Khaleel Ibrahim Kermasha (GS50939)	Mechanical Properties of the Unstitched and Silk Fiber-Stitched Woven Kenaf Reinforced Epoxy Composites	Graduated

M.Sc with thesis (Co-supervisor)

9.	Seyedefarzaneh Nojabaei (GS26533)	Development of Priority-Oriented Scheduling Method To Increase Efficiency and Reliability For Automotive Paint Job	Graduated
10.	Ong Siew Ying (GS29166)	Improved Define-Measure-Analyze-Improve-Control Methodology For Process Improvement In Semiconductor Industry	Graduated
11.	Shahdura bte Hammad Thauri (GS30401)	Viability of Microwave Hybrid Sintering Process for Tungsten Carbide Cermets	Graduated
12.	Muhammad Ammar bin Ishak (GS45810)	Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composite With Different Arrangement of Reinforcement	Graduated

13.	Muhammad Huzaifah bin Mohd Roslim (GS45811)	Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites With Reinforcements Obtained From Different Geographical Locations	Graduated
14.	Rao Muhammad Shahroze Ali (GS46284)	Effect Of Nanoclay and Silica Aerogel on Mechanical, Thermal and Physical Properties of Sugar Palm Fibre-Reinforced Unsaturated Polyester Composites	Graduated
15.	Ahmad Nazrin bin Johari (GS50388)	Influence of CaCO ₃ in Glass Fibre/Unsaturated Polyester Composite on the Thermal and Flexural Creep Behavior	Graduated
16.	Rabby Md Insiat Islam (GS55006)	Numerical Simulation of Bypass Pig	Graduated

Master by coursework (Main Supervisor)

No.	Name	Title	Status
1.	Kalaiarasu Gengiah (2006/2007)	Implementation of Reliability-based Maintenance in Petrochemical Industry	Graduated
2.	Mohamad Adzizolrohim Abd Malek (2006/2007)	Development of Total Maintenance Management System for Mechanical Department JKR Wilayah Persekutuan Kuala Lumpur	Graduated
3.	Asnul Hadi B. Ahmad (2007/2008)	Warping Defect On Different Raw Material Of Injection Moulding Machine	Graduated
4.	Yousuf Ali (2007/2008)	Critical Success Factors of Just-In-Time Implementation: A Case Study	Graduated
5.	S. Sivakumar (2007/2008)	New Product Development Cycle	Graduated
6.	Poo Shueng Keat (2007/2008)	Evaluation of TQM Implementation With Particular Reference To Organizational Improvement Of PETRONAS TRADING CORPORATION SDN BHD (PETCO) Sdn. Bhd	Graduated
7.	Zolkarnain Marjom (2008/2009)	Analysis of Plastic Injection Process Using Mould Analysis and DOE Approach	Graduated
8.	Murugan Subramaniam (2008/2009)	Quality Improvement in Liquid Injection Molding System Technology	Graduated
9.	Mohd Maramuzafar Bin Mohamad (2008/2009)	Critical Failure Factor of Electrical Appliances Using Fault Tree Analysis	Graduated
10.	Aead M. Ahmed (2008/2009)	Design of Street Lighting Lamp Using LED	Graduated
11.	Hani Mizhr (2008/2009)	The Effects of Design Parameters on Product Quality In Plastic Moulds	Graduated
12.	Wael Salah Hossein (2008/2009)	Development of Demand Forecasting Software by Using Matlab	Graduated
13.	Nor Diana binti Hashim (2008/2009)	Numerical Simulation of Metal Flow and Solidification for Low Pressure Die Casting	Graduated
14.	Kharrar Ayu Bt. Agil (2008/2009)	Development of Web-based Product Inventory Recording System	Graduated
15.	Omar B. Aziz (2008/2009)	The Effectiveness of Balance Scorecard in Malaysian Firm	Graduated
16.	Akram Sa Hamid (2008/2009)	Casting	Graduated
17.	Soraya Hani Zainalabidin (2008/2009)	Procurement as Part of Engineering	Graduated
18.	Mohammadhossein Khadembashi (2009/2010)	Customer Knowledge Management	Graduated
19.	Aini Masmira Binti A. Manaf (2009/2010)	Implication of OBE implementation at Faculty of Engineering UPM	Graduated
20.	Mohd Razali Bin Noor (2009/2010)	Design For Plastic Injection Molding And Optimization Of Process Parameter	Graduated

21.	Zainuddin Bin Zakaria @ Zahari (2009/2010)	Study On The Manufacturing Of Pineapple Leaf Fiberboard And Its Mechanical Properties	Graduated
22.	Khaldon Mohammed Almadhagi (2009/2010)	Effect of Merging Companies Based on Employees View: Yemen Airways-Yemenia Merger	Graduated
23.	Logeswaran a/l Musalayah (2009/2010)	Line Balancing in Photolithography Manufacturing Module	Graduated
24.	Nor Rodiyah binti Saleh (2009/2010)	Developing Knowledge-Based Management System	Graduated
25.	Mohd Zulhelimie bin Zainal Abidin (2009/2010)	Optimum Parameter Setting to Prevent Defects of Injection Molding Process Using Mold	Graduated
26.	Mohd Suyerdi bin Omar (2009/2010)	Design and Optimization of Runner and Gating System for Injection Moulding of Two Plate Mould	Graduated
27.	Roziyati binti Abdullah (2009/2010)	Capacity Planning Through Layout Improvement at Semiconductor Company	Graduated
28.	Norhadilah Abdul Hamid (2009/2010)	Key Successful Factors of New Product Commercialization of SMEs	Graduated
29.	Mohd Zaid bin Puteh (2009/2010)	The Application of Six Sigma Methodology to Ensure Consistency Recipe for Ion Implantation at Wafer Fabrication Process	Graduated
30.	Selvakumar Palaniandy (2009/2010)	Cost Reduction in Photolithography Wafer Processing	Graduated
31.	Nisha Munisamy (2009/2010)	Tape and Reel Sealing Quality Enhancement Using Six Sigma Methodologies	Graduated
32.	Wong Yon Tin (2010/2011)	Optimisation of Plastic Injection Moulding Parameters Using Taguchi Method	Graduated
33.	Azwan Rizal Bin Ghazali (2010/2011)	Inventory Stock Management System In Public Service Agency	Graduated
34.	Muniandy a/l Ponnasamy (2010/2011)	SMIF Pod management in Silterra's Wafer Start Room: A Lean Approach	Graduated
35.	Soomu Pillai A/L Letchumanan (2010/2011)	Cycle Time Improvement for Prototype Lot at Metrology Measurement Area (DICD/FICD Job File Creation)	Graduated
36.	Mohd Khusairi Abdul Rahim (2010/2011)	Islamic Manufacturing Practices Standard Practiced by Selected Muslim's Manufacturing Companies in Malaysia	Graduated
37.	Sulaiman Adamu Mahmud (2010/2011)	Issues and Challenges of Regulatory Agencies in a Deregulated Power Sector of the Economy	Graduated
38.	Hamid Reza Soltani (2010/2011)	Application of Six Sigma Methodology to Reduce Defective High-Pile Fabrics	Graduated
39.	Parinaz Pourrahimian Leilabadi (2010/2011)	Introducing a New Memetic Algorithm for Tandem Automated Guided Vehicle System Partitioning Problem	Graduated
40.	Khairul Hafez bin Ibrahim (2010/2011)	Total Productive Maintenance in Air Conditioning System for Hospital Kuala Lumpur	Graduated
41.	Muhammad Fakhrin Shamsudin (2010/2011)	Cylinder Line Production Capacity Improvement	Graduated
42.	BT Iskandar Zulkarnain bin Baharudin (2011/2012)	Quality Improvement in Stamping Process	Graduated
43.	Pouyan Jalili (2011/2012)	Simulation-Based Optimisation on Determining the Minimum Number of Logistics Equipment In Closed Loop Network	Graduated
44.	Abdul Hanif bin Ludin (2011/2012)	Design and Analysis of Plastic Injection Mould With Undercut Moulding for 2 Pin Plug and Safety Cap	Graduated
45.	Mohammed Ahmed Abdulrahman Baraga'a (2011/2012)	Feasibility Study of Post-Market Surveillance and the Reporting System for Medical Devices in Malaysia	Graduated

46.	Mohammad Borhan (2011/2012)	Feasibility Study of Liquefied Petroleum Gas (LPG) Composite Cylinder for Household Users in Malaysia	Graduated
47.	Zahra Amirisefat (2011/2012)	Influential Factors on Consumer's Green Purchasing Behavior Among Postgraduate Students	Graduated
48.	Khadijah binti Ishak (2011/2012)	Predictive Maintenance Using Vibration Analysis	Graduated
49.	Nasim Saeedparvar (2011/2012)	Business Strategy and Customer Satisfaction Analysis in Malaysia Fashion Company	Graduated
50.	Ali Afsharhanaei (2011/2012)	Simulation of Milling Machining in Order to Compare G-Code with STEP-NC	Graduated
51.	Saifolnizam bin Hashim (2011/2012)	An Experimental Study of Sugarcane Bagasse Composite	Graduated
52.	Muniandy a/l Ponnasamy (2011/2012)	SMIF Pod Management in S-Fab's Wafer Start Room: A Lean Approach	Graduated
53.	Mohammad Khalid bin Wahid (2011/2012)	Study on Impact Fracture and Tensile of Oil Palm Fiber Reinforced Polymer Composite	Graduated
54.	Abdulhameed Hamid Mohammed Almulsei (2012/2013)	Blue Ocean Strategy in ICT Services	Graduated
55.	Nooraida Azura binti Md Darom (2012/2013)	Improvement of Benchmarking Process as Part of Engineering Design Input in New Model Development	Graduated
56.	Ciavash Mobarezhighi (2012/2013)	Integration of Value Engineering and Its Tools in Six Sigma Procedure	Graduated
57.	Tamil Selvam Govindarajoo (2012/2013)	Polymer Passivation for Wafer Level Chip Select Packaging	Graduated
58.	Normah binti Kassim (2012/2013)	Design Air Cushion Packaging in Television Manufacturing Industry	Graduated
59.	Assef Shakeri (2012/2013)	Comparison Between Green Concrete and Conventional Concrete in Terms of Strength, Workability and Economics	Graduated
60.	Doreenitha Kanasam (2012/2013)	Integration of Total Quality Management and Lean Manufacturing in Waste Management of Hard Disk Drive Manufacturing Industry	Graduated
61.	Mohammad Khamehchian (2012/2013)	Value Engineering	Graduated
62.	Zalina binti Ya (2012/2013)	Application of Taguchi Method to Optimize Compression Molding Parameters of Rubber Keypad	Graduated
63.	Leong Kean Wei (2012/2013)	Corrosion Properties of Vanadia Based Anodizing Coating on AZ91 D Magnesium Alloy	Graduated
64.	Siti Aminah binti Abdul Ghani (2012/2013)	Maximize Carton Stacking Quantity Using Pallet Loading Software	Graduated
65.	Ekmal Hakim Zainuddin (2012/2013)	Reduction of Softgel Drying Time Through Process Parameter Optimization	Graduated
66.	Ganesan a/l Narayanasamy (2012/2013)	Improving Quality Awareness In-Line With Production Target Among Foreign Workers and Lower Management in Manufacturing Industry	Graduated
67.	Navid Nik Seresht (2012/2013)	Cost and Time Overruns in Construction Projects: A Study on Northern Sates of Iran	Graduated
68.	Andisheh Lashgari (2012/2013)	Supplier Selection in Automotive Industry Using AHP and Fuzzy TOPSIS	Graduated
69.	Mohammad Abdollahpourpayandeh (2012/2013)	A Survey and Evaluation of Methods and Strategies for Line Balancing of Assembly Line in an Auto Part Industry	Graduated

70.	Syed Radzi bin Rahamaddulla (2012/2013)	Blue Ocean Strategy for Malaysian Automotive Industries, Towards Enhancing Value for Customer and Company	Graduated
71.	Azizah binti Ahmad (2012/2013)	Productivity Improvement in Tyre Manufacturing by Using Witness Software	Graduated
72.	Pouyan Barishahabadi (2012/2013)	Improving Construction Management of a Cattle Barn by Applying Earned Value Technique	Graduated
73.	Devananthan Gunasegaran (2012/2013)	Improving Customer Service by Rapport Approach	Graduated
74.	Azizul Qayyum Basri (2012/2013)	A Study of Optimization Parameter Setting of Plastic Injection Moulding to Improve Product Performance Using Design of Experiment (DOE) of Taguchi	Graduated
75.	Hossein Esmaeilzadeh (2012/2013)	Effect of Leader-Member Exchange on Workplace Emotions and Counterproductive Work Behaviors	Graduated
76.	Navid Aghabakhshi (2012/2013)	Developing a New Approach for Monitoring Attribute Quality Characteristics	Graduated
77.	Nadzrul Idzham bin Kasim (2012/2013)	Cab Transfer Process Improvement at an Automotive Manufacturing	Graduated
78.	Majid Mokhtarisani (2012/2013)	Influence of Leadership Behavior on Project Management in Malaysian Industries	Graduated
79.	Amin Nosratabadi (2012/2013)	A Genetic Algorithm Approach for the Facility Layout Problems	Graduated
80.	Syed Ali Tabatabaei Yazdi (2012/2013)	Importance of Using Life Cycle Costing and Cost Estimation by Metallurgical Engineer in Their Projects (Case Study in Iran)	Graduated
81.	Harain Sivapragasam (2012/2013)	Via In Pad Plated Over (VIPPO) Printed Circuit Board (PCB) Assembly Best Practice	Graduated
82.	Jasman Amin Jamarei	The Importance of Schedule Control as an Important Element in Execution of a Successful Multidiscipline Engineering, Procurement and Construction Project	Graduated
83.	Muhammad Khairy b Md Naim (2012/2013)	Optimization of Wire Electrical Discharge Machining (WEDM) on AISI P20 Using Response Surface Methodology (RSM)	Graduated
84.	Ahmadreza Parvar (2012/2013)	Assembly Line Balancing Using Ranked Positional Weight Method and Genetic Algorithm in an Auto Part Industry	Graduated
85.	Thangaswaran a/ Paramasivan (2013/2014)	Public Switched Telephone Network (PSTN) to Next Generation Network (NGN) Migration Process	Graduated
86.	K.S. Ushass a/ K.G. Sivan (2013/2014)	Moulding Machine Parameter Optimization for Quality Improvement and Waste Reduction	Graduated
87.	Suraj Raphael (2013/2014)	Estimation of the Life Cycle Cost for a Sustainable Facility Management	Graduated
88.	Wan Shazwani Wan Hassim (2013/2014)	Quality Improvement on Outer Surface Skin 2 of Sharklet Leading Edge	Graduated
89.	Nor Asmah binti Daud (2013/2014)	Study on Perception of Industrial Workers Towards Recognition of Prior Achievement (RPA)	Graduated
90.	Salamah Ibrahim (2013/2014)	Towards A Better Measure of Service Quality	Graduated
91.	Sharifah Norsakinah Syed Zainal Abidin (2013/2014)	Method to Reduce the Paint Defect (Blistering) in the Paint Shop	Graduated
92.	Mohd Irman bin Ibrahim (2013/2014)	Assembly Line Balancing	Graduated

93.	Mohd Kamal bin Kamarulzaman (2013/2014)	A Cost Analysis Study on Empty Fruit Bunch Disposal Methods	Graduated
94.	Muhammad Farizuan Bin Muhammad Fauzi (2014/2015)	Automatic Shut Off System For Domestic Cooking Gas	Graduated
95.	Mohamad Riza bin Ismail (2014/2015)	Mechanical Properties of Dissimilar Aluminium Joints Using Friction Stir Welding (FSW)	Graduated
96.	Mohd Faizal Abu Talib (2014/2015)	Performance Analysis of AUV Propeller Using Reverse Engineering Technique	Graduated
97.	Vijaya Rau a/l Aparow (2014/2015)	Integration of Poka Yoke Concept Into Process Failure Mode and Effect Analysis (FMEA)	Graduated
98.	Mohd Afzainizam bin Aziz (2014/2015)	Awareness of Value Management Practice in Government Sector	Graduated
99.	Husam Mahdi Ahmed (2014/2015)	Development of Quality Assurance Program for Construction Project	Graduated
100.	Ali Hussein Humod (2014/2015)	Improving Productivity and Quality in Manufacturing by Applying Computer Vision System (Image Processing Technique)	Graduated
101.	Sharifah Nur Izatul binti Syed Hizam (2014/2015)	Assembly Line Improvement in an Electronic Plastic Component Manufacturer	Graduated
102.	Nur Farah 'izzati binti Zakaria (2014/2015)	Productivity Improvement in TV Production	Graduated
103.	Zulkarnain bin Abdul Latiff (2014/2015)	The Effects of Process Parameters on Mechanical Properties of Parts Produce by Rapid Prototyping Machine	Graduated
104.	Bayumi bin Abd Rahman (2014/2015)	Optimization of Process Parameter for 65 mm Technology NMOS Transistor Using Taguchi Method	Graduated
105.	Mohamad Fazreen bin Maidin (2015/2016)	Finite Element Analysis of Bird Strikes on Aircraft Composite Skin and Structure	Graduated
106.	Raj Mohan a/l Gobi (2015/2016)	Die Mount Parameter Optimization for Die Attache Process in Semiconductor Industry	Graduated
107.	Noor Aini binti Yaacob (2015/2016)	Study of Perception of Vehicle Owners on Bahasa Malaysia Adaptation in the Vehicle's Manual and Display Unit	Graduated
108.	Azila binti Arzmi (2015/2016)	Survey on Students Satisfaction Level Regarding UPM Bus Service	Graduated
109.	Khairuddin bin Hj Osman (2015/2016)	Risk-Based Maintenance Strategy Using FMEA Analysis for High Frequency (HF) Broadcasting System	Graduated
110.	Rajeswaran a/l Sagarar (2015/2016)	Risk Management Practice in Engineering and Construction Projects	Completed
111.	Nurul Haniza binti Khasmuni (2015/2016)	Aero-Composite Process and Quality Control	Graduated
112.	Shahrin Azuar bin Mohd Adam (2015/2016)	Design and Fabrication of Model Rudder System For Surface Drive Application In Fiberglass Fishing Boats	Graduated
113.	Ahmad Naufal bin Muhammad Mustafa (2015/2016)	Improvement of Induction Hardening Process	Graduated
114.	Yong Kar Foong (2016/2017)	Injection Molding Process Parameter Optimisation Using Design of Experiment to Reduce Part Warpage	Graduated
115.	Mumtaz Binti Norman (2016/2017)	Improvement of Die Casting Part Layout Through Simulation	Graduated
116.	Shehab Rawhan Abdulsameea Abdulraqeb (2016/2017)	Development of a Low Cost Plastic Identification System Using Infrared Technology	Graduated

117.	Nurul Hamizah Binti Mohamed (2016/2017)	Effects of Combination of Sugarcane Bagasse and Polyethylene Terephthalate (PETE) in Lightweight Composite	Graduated
118.	Norhazlina Nordin (2016/2017)	The Effectiveness of Social Skills and Social Values for Apprentices in National Dual Training System (NDTS) Spa Therapy Program	Graduated
119.	Nur Atiqah binti Adam (2016/2017)	Sourcing Strategy for Discontinued Products	Graduated
120.	Nithyaa Nanthaa Rao (2016/2017)	Introduction of Dilute Ammonia in Double Side Scrubbing (DSS) in Silicon Wafer Cleaning Process	Graduated
121.	Rai'dah Hanis binti Yusni (2017/2018)	Mobile Application for Maintenance Management System	Graduated
122.	Mohd Rusdie bin Abd Rahman (2017/2018)	Application of Engineering Management Aspect With Planning Technique for Developing Power Load Distribution System	Graduated
123.	Khaled Mohammed (2017/2018)	Customers Perception on Service Quality of Emirates Airlines	Graduated

Undergraduate Final Year Project (Main Supervisor)

No.	Name	Title	Status
1.	Mohamad Saifol Aaisa (2006/2007)	Moisture Absorption Behavior of Sugar Palm Fiber Reinforced Composites	Graduated
2.	Azwan Bin Mohd (2006/2007)	Study on the Effect of Environmental Treatment (Sea Water and Fresh Water) on Ijuk Fiber Surface Properties and Tensile Strength of Ijuk Fiber Composite	Graduated
3.	Lew Kok Leong (2006/2007)	The Effect of Carbon Black on Shore D Hardness of Base Resin	Graduated
4.	Mohd Syaie Bin Md Zuki (2006/2007)	Study on Fiber Reinforced Composite Boat Manufacturing Methods	Graduated
5.	Yee Chee Kit (2006/2007)	The Effect of Silox on Shore D hardness of Base Resin	Graduated
6.	Lau Kah Wai (2007/2008)	Tensile Strength of Sugar Palm Fiber-Reinforced Epoxy Composites	Graduated
7.	Lai Kin Keong (2007/2008)	Impact Strength of Sugar Palm Fiber-Reinforced Epoxy Composites	Graduated
8.	Poh Wen Haur (2007/2008)	Flexural Strength of Sugar Palm Fiber-Reinforced Epoxy Composites	Graduated
9.	Lim Chee Gark (2007/2008)	Mechanical Properties of XLPE	Graduated
10.	Sahadehvah A/L Suppiah (2008/2009)	Analysis of Interfacial Shear Strength of Natural Fiber Composite	Graduated
11.	Chia Su Fan (2008/2009)	Mechanical Properties of XLPE	Graduated
12.	Ong Ern Seang (2008/2009)	Mechanical Properties of Natural Fiber Reinforced Epoxy Composite	Graduated
13.	Goh Hwee Seong (2008/2009)	Mechanical Properties of Sewage Water and Pond Water Treated Sugar Palm (<i>Arenga Pinnata</i>) Fiber Reinforced Epoxy Composite	Graduated
14.	Chin Jon Kit (2010/2011)	Effect of Impregnation on the Mechanical Properties of Sugar Palm (<i>Arenga Pinnata</i>) Fibre Reinforced Unsaturated Polyester Composites	Graduated
15.	Chua Jia Chyau (2010/2011)	Effect of Impregnation on Physical Properties of Sugar Palm Fibre Reinforced Unsaturated Polyester (UP) Composite	Graduated
16.	Khor Ling Si (2011/2012)	The Interfacial Strength of Sugar Palm (<i>Arenga Pinnata</i>) Fibre Reinforced Composite by Using Pull-Out Test	Graduated

17.	Lee Ching Hao (2011/2012)	The Optimum Embedded Length and Interfacial Shear Strength (IFSS) of Sugar Palm Reinforced Composite by Using Pull-Out Test	Graduated
18.	Nurul Nabila binti Azman (2012/2013)	Effect of Aluminium Tri-Hydroxide (ATH) on Mechanical and Flammability Properties of Impregnated Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Graduated
19.	Siti Nadirah binti Aduka (2012/2013)	Effect of Magnesium Hydroxide (Mg ₂ OH) on Mechanical and Flammability Properties of Unsaturated Polyester (UP) Impregnated Sugar Palm Fibre Composites	Graduated
20.	Stanley Ipoh (2013/2014)	Inter-laminar Shear Strength of Kenaf/Kevlar Reinforced Epoxy/Polyester Multi-layered Hybrid Composite	Graduated
21.	Mark Stefan bin Natesan (2013/2014)	Mechanical Properties of Unidirectional Kenaf/Kevlar Fibre Reinforced Polyester Multi-layered Hybrid Composite	Graduated
22.	Nurhanani Binti Ahmad (2015/2016)	Characterisation of Banana Pseudo Stem/Glass Fibre Hybrid Composites	Graduated
23.	Aini Nazmin binti Md Zain (2015/2016)	Characterisation of Kevlar/Durian Skin/Phenolic Hybrid Composites	Graduated
24.	Safinaz Binti Saad (2015/2016)	Characterisation of Sago Palm/Carbon Fibre/Epoxy Hybrid Composites	Graduated
25.	Muhamad Amirul Razwan bin Abdul Razak (2017/2018)	Experimental Optimisation of Drilling Process Parameters for Sugar Palm Fibre Reinforced Polypropylene Composite	Graduated
26.	Faizal Juan Kumar (2017/2018)	Numerical Optimisation of Drilling Process Parameters for Sugar Palm Fibre Reinforced Polypropylene Composite	Graduated
27.	Muhammad Nor Amri bin Ramlee (2017/2018)	Characterisation of Jering (<i>Archidendron Pauciflorum</i>) Fibre Reinforced Polyester Composite	Graduated
28.	Nuryasimin Nazira binti He Samsudin (2088/2019)	Design and Development of a Portable Water Bike – Part I	Graduated
29.	Muhammad Dinie bin Zamzuri (2018/2019)	Design and Development of a Portable Water Bike – Part II	Graduated
30.	Amir Adli bin Ishak (2019/2020)	Biodegradable Composite Product Development – Part I	Graduated
31.	Muhammad Mukhlis bin Ab Rahim (2019/2020)	Biodegradable Composite Product Development – Part I	Graduated
32.	Hamzi Luqman Bin Marzuki (2020/2021)	Development of kenaf fibre reinforced polyester composites in Mass Transit Application (I)	Graduated
33.	Muhamad Rizman Bin Mohd Fadzli (2020/2021)	Development of sugar palm fibre reinforced polyester composites in Mass Transit Application (II)	Graduated
34.	Syamimi Fathiah Binti Mohd (2021/2022)	Thermal Properties of Kenaf/Glass Fibre Reinforced Unsaturated Polyester Hybrid Composites	Graduated
35.	Nurul Farhanah Binti Mohd Firdaus (2021/2022)	Thermal Properties of Oil Palm/Glass Fibre Reinforced Unsaturated Polyester Hybrid Composites	Graduated
36.	Kamal Shoaib Bin (2022/2023)	Biocomposites As Thermal Insulators	Graduated
37.	Ahmad Khairi Bin Tausin (2022/2023)	Biocomposites As Sound Absorbing Materials	Graduated



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|-----|---|--|-----------|
| 38. | Muhamad Ikram Afiq Bin Idris@Md Salleh
(2023/2024) | Surface Finish and Quality Improvement in Machining Natural Fibre Composites | Submitted |
| 39. | Umaibala A/L Rajendiran
(2023/2024) | Milling Operation On Natural Fiber Composites With Delamination Assessment | Submitted |

Thesis Examiner in UPM

No.	Program	Category	Matric No.	Name	Senate Date
1.	PhD	Member	GS46322	Sina Ghaffari	13/06/2024
2.	PhD	Chairman	GS60180	Alhamada Thaeer Faez Ahmed	14/03/2024
3.	PhD	Member	GS41525	Nur Afifah binti Zakaria	14/09/2023
4.	PhD	Chairman	GS53369	Nadia Hanim binti Abd Rani	09/02/2023
5.	PhD	Chairman	GS54217	Anene Franklin Amaechi	12/01/2023
6.	PhD	Member	GS52863	Mohd Izwan bin Shaharuddin	08/12/2022
7.	PhD	Chairman	GS38884	Wong Weng Lam	10/11/2022
8.	PhD	Member	GS54002	Mohamad Omar Syafiq bin Razali	11/08/2022
9.	PhD	Chairman	GS44322	Salami Bahariah binti Suliano	09/06/2022
10.	PhD	Member	GS51524	Sharaf Hussein Kadhim Sharaf	14/04/2022
11.	PhD	Member	GS55324	Zatil Hazrati binti Kamaruddin	09/03/2022
12.	PhD	Chairman	GS49138	Negin Ashrafi	09/12/2021
13.	PhD	Chairman	GS52841	Muhammad Asyraf bin Muhammad Rizal	09/09/2021
14.	PhD	Chairman	GS50335	Danish Mahmood Baitab	12/08/2021
15.	PhD	Member	GS31074	Teo Hiu Hong	16/07/2020
16.	PhD	Chairman	GS33492	Davood Zamani	16/07/2020
17.	PhD	Chairman	GS44107	Noor Azammi b. Abd Murat	12/03/2020
18.	PhD	Chairman	GS50780	Mohamed Ibrahim J Ibrahim	13/02/2020
19.	PhD	Chairman	GS34093	Moey Lip Kean	09/01/2020
20.	PhD	Chairman	GS37821	Amer M. Magaidi	17/10/2019
21.	PhD	Chairman	GS43397	Bader M.S.M. Aladwani	17/10/2019
22.	PhD	Chairman	GS38278	Abdul Azim Abdul Rahman	17/10/2019
23.	PhD	Chairman	GS43628	Azizul Rahman bin Abd Aziz	12/09/2019
24.	PhD	Chairman	GS46982	Ahmad Ilyas bin Rushdan	11/04/2019
25.	PhD	Chairman	GS41782	Shayan Dehghan	11/04/2019
26.	PhD	Chairman	GS40487	Alabi Abdulmumin Akoredeley	16/08/2018
27.	PhD	Chairman	GS39966	Hussein Adel Mahmood	17/05/2018
28.	PhD	Chairman	GS35666	Ng Khai Mun	17/05/2018
29.	PhD	Chairman	GS39956	Ibrahim Abdullahi Rafukka	08/06/2017
30.	PhD	Chairman	GS32294JD	Khairul Manami binti Kamarudin	13/07/2017
31.	PhD	Chairman	GS27200	Ruzaidi bin Zamri	09/03/2017
32.	PhD	Chairman	GS35597	Munir Faraj Almabrauk	03/04/2017
33.	PhD	Chairman	GS35595	Ng Tan Ching	08/09/2016
34.	PhD	Chairman	GS17768	Majid Mojahed	09/10/2014
35.	PhD	Chairman	GS18764	Hassan Zareei	25/06/2015
36.	PhD	Chairman	GS28524	Nisreen N. Ali Al-Adnani	13/08/2015
37.	PhD	Chairman	GS29868	Babak Ganjeh	11/02/2016
38.	PhD	Chairman	GS17675	Agung Efriyo Hadi	08/09/2011
39.	PhD	Chairman	GS26879	Saud Said Khalfan Ai-Anbari	13/08/2015
40.	PhD	Chairman	GS18909	Mohammadreza Vasili	14/07/2011
41.	PhD	Chairman	GS21318	Shahryar Sorooshian	19/03/2012
42.	PhD	Chairman	GS28266	Seyed Amir Hossein Khosh Solat	16/05/2014
43.	PhD	Chairman	GS30479	Rosli bin Darmawan	25/06/2015
44.	PhD	Chairman	GS31076	Seyed Mojtaba Zabihinpour Jahromi	25/06/2015
45.	PhD	Chairman	GS30204	Mohd Uzair bin Mohd Rosli	12/03/2015
46.	PhD	Chairman	GS31778	Zahra Firoozi	12/03/2015
47.	PhD	Chairman	GS32519	Tuqa Abdul Razzaq Flayyih	14/05/2015
48.	PhD	Chairman	GS21407	Ali Jahan	14/07/2011
49.	PhD	Member	GS31074	Teo Hiu Hong	16/07/2020
50.	PhD	Member	GS46989	Alaaeddin M. H. Abed	13/02/2020
51.	PhD	Member	GS43926	Fatimah Athiyah binti Sabaruddin	08/07/2019

52.	PhD	Member	GS41524	Siti Zubaidah binti Mat Daud	11/04/2019
53.	PhD	Member	GS36983	Cik Suhana binti Hassan	13/12/2018
54.	PhD	Member	GS43587	Dele-Afolabi Temitope Theophilus	16/08/2018
55.	PhD	Member	GS39560	Qasim Mhalhal Azpen	12/07/2018
56.	PhD	Member	GS35809	Rosdi bin Mohammad	12/04/2018
57.	PhD	Member	GS41543	Adnan Abbas Abdulnabi	12/04/2018
58.	PhD	Member	GS36053	Iman Rahimi	09/11/2017
59.	PhD	Member	GS35754	Mehran Tamjidy	08/05/2017
60.	PhD	Member	GS32755	Mohd Fairuz b Abd Manab	17/11/2016
61.	PhD	Member	GS25863	Basheer Ahmed Ahmed Ali	13/08/2015
62.	PhD	Member	GS19627	Majid Davoodi Makinejad	19/03/2012
63.	PhD	Member	GS22031	Shahram Ariafar	14/06/2012
64.	PhD	Member	GS30956	Saeed Rahmanian	25/06/2015
65.	PhD	Member	GS33793	Ahmad Hamdan bin Ariffin	14/04/2016
66.	PhD	Member	GS30839	Yusriah binti Lazim	30/10/2014
67.	PhD	Member	GS24012	Yousuf Ali Gumaan El-Shekeil	22/11/2012
68.	PhD	Member	GS33519	Muhd Ridzuan bin Mansor	09/04/2015
69.	PhD	Member	GS35274	Faris Mohammed Khair Faris Al-Oqla	14/05/2015
70.	PhD	Member	GS17467	Fazlollah Agamohamadi Basmenj	11/09/2014
71.	PhD	Member	GS15819	Januar Parlaungan Siregar	09/06/2011
72.	PhD	Member	GS23697	Ana Sakura binti Zainal Abidin	12/12/2013
73.	PhD	Member	GS31529	Shahla Paslar	11/02/2016
74.	PhD	Member	GS21306	Dandi Bachtiar	09/08/2012
75.	PhD	Member	GS26836	Nanang Fatchurrohman	13/02/2014
76.	PhD	Member	GS30834	Morteza Ghobakhloo	13/08/2015
77.	PhD	Member	GS25048	Suriani binti Mat Jusoh	13/12/2012
78.	PhD	Member	GS28638	Marjan Bahrami Nasab	16/05/2014
79.	PhD	Member	GS32933	Mohd Azaman Md Deros	10/09/2015
80.	PhD	Member	GS24543	Iswa Suleiman Aji	08/12/2011
81.	Master	Chairman	GS44632	Ahmad Syahmi bin Mohamed Latiff	16/07/2020
82.	Master	Chairman	GS44554	Nur Sofeana Zulaika binti Mohd Nor Munawar	18/09/2018
83.	Master	Chairman	GS41986	Nor Atirah bt Mohd Aridi	10/08/2017
84.	Master	Chairman	GS22043	Mona Kiaee	13/08/2015
85.	Master	Chairman	GS29429	Cheong Xiang Hou	09/06/2016
86.	Master	Chairman	GS22498	Elias Randjbaran	14/11/2013
87.	Master	Chairman	GS30408	Mohammadnassir Sheikholeslam	09/10/2014
88.	Master	Chairman	GS32060	Arash Zaighami	12/02/2015
89.	Master	Chairman	GS26931	Shazed Md. Aziz	16/05/2013
90.	Master	Chairman	GS32058	Ahsanul Kaiser	10/07/2014
91.	Master	Chairman	GS34401	Muath Dheaa Abdulradha Al-Falahi	10/09/2015
92.	Master	Chairman	GS27338	Iman Bayesti	14/03/2013
93.	Master	Chairman	GS29439	Nurhaiza binti Shahrir	16/05/2013
94.	Master	Chairman	GS29862	Altayyeb Abdullah	15/08/2013
95.	Master	Chairman	GS36632	Fahimehsadat Ghorashi Najafabadi	14/05/2015
96.	Master	Chairman	GS33160	Abolfazl Golshan	20/03/2014
97.	Master	Member	GS31814	Norianty binti Mazani	
98.	Master	Member	GS22069	Negar Jamali	13/12/2012
99.	Master	Member	GS25185	Nor Hanifawati binti Inai	11/07/2013
100.	Master	Member	GS25136	Wan Mohamad Haniffah bin Wan Hussin	15/05/2012
101.	Master	Member	GS25370	Umar bin Abdul Hanan	22/11/2012
102.	Master	Member	GS21404	Marjan Bahrami Nasab	25/11/2010
103.	Master	Member	GS25928	Reza Mehryari Lima	09/08/2012
104.	Master	Member	GS32949	Hammajam A. Abba	16/05/2014
105.	Master	Member	GS32590	Munaim Ali bin Omar Baki	08/10/2015
106.	Master	Member	GS23710	Emiliana Rose binti Jusoh @ Taib	08/12/2011
107.	Master	Member	GS31405	Mahdi Nahavandi	10/07/2014
108.	Master	Member	GS23074	Abdul Hakim bin Abdullah	09/06/2011
109.	Master	Member	GS25097	Mohd Fairuz b Abd Manab	10/11/2011



110.	Master	Member	GS25568	Mohd Firdaus bin Abd Rahman	13/09/2012
111.	Master	Member	GS28289	Mohd Shukri bin Ibrahim	15/05/2012

External Thesis Examiner

No.	Name	Title	Level	Year
1.	Iman Firdaus bin Ismail (USM)	Additive Manufacturing of Electrostatic Discharge (ESD) Materials for Gripper Application in Robotic Arm	MSc	2024
2.	Mohd Khairul Efni Bin Norman (UTHM)	Experimental Characterization of Banana Fiber/Epoxy Composite For Effective Alkaline Treatment	MSc	2023
3.	Yuan Xien Lee (UTP)	Performance of Recycled Glass, Wolframite/MOF Reinforced Modified Epoxy Based Intumescent Fire-Retardant Coating for Steel Structure.	MSc	2023
4.	Saradha Purnima (Gandhi Institute of Technology and Management, Visakhapatnam, India)	Evaluation Of Electric Discharge Machined Surface By WC/Co Electrode Made Through Powder Metallurgy Method	PhD	2022
5.	Sinan Hamdi (UTP)	Experimental Investigation On Natural Polymer Grafted Single And Hybrid Nanoparticles Based Nanofluids For Enhanced Eor Process.	PhD	2021
6.	Harshavardhan Shetty (Visvesvaraya Technological University (VTU), Karnataka, India)	Low Velocity Impact Resistance and Quasi Static Indentation Behavior Of Hybrid Polymer Composite Laminates	PhD	2021
7.	Muhammad Yassir (UTP)	Thermo-mechanical behavior of Hybrid Fiber Reinforced Intumescent Fire Retardant Coating for Structural Steel Application	PhD	2020
8.	Raphael Joshua Mailabari (UTP)	Piezoresistive Epoxy Resin Carbon-Black Silica Nanocomposite for Structural Health Monitoring of Petroleum Pipeline	PhD	2018
9.	J. Lilly Mercy (Sathyabama Institute of Science and Technology, Chennai, India)	Self-Healing Glass Fibre Reinforced Plastic (SHGFRP) Composite	PhD	2018
10.	Noorfa Idayu binti Mohd Ali (UTeM)	Cavity Pressure Monitoring In Injection Moulding Process Parameter Optimisation Using Taguchi Based Grey Relational Analysis	Master	2017
11.	Hengameh Hanaei (UTP)	Efficiency Enhancement of Silicon Solar Cell Using Single Wall Carbon Nanotubes (SWCNTs) for Anti-reflection and Self-cleaning Coating Purposes	PhD	2017
12.	Alya Naili Rozhan (IIUM)	Utilization of Oil Palm Agro-Residues To Produce Carbon-Infiltrated Biochar As An Alternative Energy Source in Ironmaking	PhD	2016
13.	Amirul Aliff bin Jamaludin (USM)	An Integration of Taguchi Method and Response Surface Methodology (RSM) on Reprocessed Injection Moulded PP Gears for Parameters Optimization	Master	2014
14.	Amirhossain Goharian (UTM)	Development of Polymer Composite Material Beam Applying for Acetabular Cup	Master	2012