

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

Areas of Interest

1. Biocomposite Materials and Manufacturing Engineering

Professional Qualification/Membership/Affiliation

1. Member, (no. 44620) SAVE International.
2. Associate Value Specialist (AVS) cert. no. 201202049, SAVE International.
3. Graduate Member, (no. G54313) Institution of Engineers Malaysia (IEM).
4. Graduate Member, (no. 46335A) Board of Engineers Malaysia (BEM).
5. Member, (no. 00307) Malaysian Society for Engineering and Technology.
6. Member, (no. 00139) Institute of Value Management Malaysia.

Other Memberships

1. Ahli, Persatuan Pegawai Akademik UPM
2. Ahli, Persatuan Alumni UPM
3. Ahli, Kelab Sukan dan Sosial, Fakulti Kejuruteraan UPM
4. Ahli, Koperasi UPM Bhd

Appointments

| Position | Duration |
|--|-------------------------------|
| 1. Associate Professor | 1 December 2010 to date |
| 2. College Principal (K10 and K15) | 1 January 2011– 26 March 2016 |
| 3. Associate Researcher, Biocomposite Technology Laboratory, INTROP | 2016-date |
| 4. Head of Field of Postgraduate Study with thesis: Materials Engineering (Dept) | 2015-date |
| 5. Member, Value Management Committee (UPM) | 2012-2015 |
| 6. Program Coordinator: Master of Engineering Management | May 2003-May 2009 |
| 7. Coordinator of Postgraduate Studies (Dept) | 2009-2011 |
| 8. Coordinator: Instrumentation Laboratory (Dept) | 2007-2016 |
| 9. Coordinator I: Metal Forming Laboratory (Dept) | 2004-2007 |
| 10. Chairman: Quality Assurance Committee (Dept) | 1998-2002 |
| 11. Committee member: ISO9001 Action Committee (Faculty) | 2000-2002 |
| 12. Committee member: Quality Assurance Council (Faculty) | 2001-2002 |
| 13. Internal Quality Auditor (Faculty) | 2000-2009 |
| 14. Member: Manufacturing and Management Unit (Dept) | 1998-date |

Publications
Current h-index = 10
Citation Indexed Journals

1. Bushra Rashid, **Z. Leman**, M. Jawaid, M. J. Ghazali & M. R. Ishak (2017), Effect of Treatments on the Physical and Morphological Properties of SPF/Phenolic Composites, *Journal of Natural Fibers*, DOI: 10.1080/15440478.2016.1266291.
2. Suhad D Salman, **Z. Leman**, MR Ishak, MTH Sultan and F. Cardona, Quasi-static penetration behavior of plain woven kenaf/aramid reinforced polyvinyl butyral hybrid laminates, *Journal of Industrial Textiles*, 2017, 0(00) 1–20, DOI: 10.1177/1528083717692593.
3. Chandrasekar, M., Ishak, M.R., Jawaid, M., **Leman, Z.**, Sapuan, S.M., An experimental review on the mechanical properties and hygrothermal behaviour of fibre metal laminates, (2017), *Journal of Reinforced Plastics and Composites*, 36 (1), pp. 72-82. DOI: 10.1177/0731684416668260.
4. Rashid, B., **Leman, Z.**, Jawaid, M., Ghazali, M.J., Ishak, M.R. Influence of Treatments on the Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced Phenolic Composites, (2017), *BioResources*, 12(1), 1447-1462. DOI: 10.15376/biores.12.1.1447-1462.
5. Gholizadeh, S., **Leman, Z.**, Baharudin, B.T.H.T., Inayatullah, O., Acoustic emission analysis for characterisation of damage mechanisms in glass fiber reinforced polyester composite, *Australian Journal of Mechanical Engineering*, December 2016, pp. 1-10, DOI: 10.1080/14484846.2016.1264284.
6. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Water absorption behaviour and impact strength of kenaf-kevlar reinforced epoxy hybrid composites (2016) *Advanced Composites Letters*, 25 (4), pp. 98-102.
7. Mukhtar, I., **Leman, Z.**, Ishak, M. R., and Zainudin, E. S. (2016). "Sugar palm fibre and its composites: A review of recent developments," *BioResources*, 11(4), 10756-10782. DOI: 10.15376/biores.11.4.10756-10782.
8. Suhad D Salman, **Z. Leman**, MTH Sultan, MR Ishak and F. Cardona, Ballistic Impact Resistance of Plain Woven Kenaf/Aramid Reinforced Polyvinyl Butyral Laminated Hybrid Composite (2016), *BioResources*, 11 (3), pp. 7282-7295. DOI: 10.15376/biores.11.3.7282-7295.
9. Suhad D Salman, **Z. Leman**, MTH Sultan, MR Ishak and F. Cardona, Effect of Kenaf Fibers on Trauma Penetration Depth and Ballistic Impact Resistance For Laminated Composites, *Textile Research Journal*, 0(00) 1-15, 2016, DOI: 10.1177/0040517516663155.
10. Rashid, B., **Leman, Z.**, Jawaid, M., Ghazali, M.J., Ishak, M.R. The mechanical performance of sugar palm fibres (ijuk) reinforced phenolic composites, *International Journal of Precision Engineering and Manufacturing*, August 2016, Volume 17, Issue 8, pp 1001–1008. DOI: 10.1007/s12541-016-0122-9.
11. Rashid, B., **Leman, Z.**, Jawaid, M., Ghazali, M.J., Ishak, M.R. Physicochemical and thermal properties of lignocellulosic fiber from sugar palm fibers: effect of treatment (2016) *Cellulose*, 23 (5), pp. 2905-2916. DOI: 10.1007/s10570-016-1005-z
12. Misri, S., Ishak, M.R., Sapuan, S.M., **Leman, Z.** Split-disk properties of kenaf yarn fibre-reinforced unsaturated polyester composites using filament winding method (2016) *Pertanika Journal of Science and Technology*, 24 (2), pp. 475-482.
13. Salman, S.D., Sharba, M.J., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Cardona, F. Tension-compression fatigue behavior of plain woven kenaf/kevlar hybrid composites (2016) *BioResources*, 11 (2), pp. 3575-3586. DOI: 10.15376/biores.11.2.3575-3586
14. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Investigating ballistic impact properties of woven kenaf-aramid hybrid composites (2016) *Fibers and Polymers*, 17 (2), pp. 275-281. DOI: 10.1007/s12221-016-5678-6
15. Delgoshaei, A., Ariffin, M.K.M., Bin Baharudin, B.H.T., **Leman, Z.** A new method for decreasing cell-load variation in dynamic cellular manufacturing systems (2016) *International Journal of Industrial Engineering Computations*, 7 (1), pp. 83-110. DOI: 10.5267/j.ijiec.2015.7.004
16. Salman, S.D., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Cardona, F. Influence of Fiber Content on Mechanical and Morphological Properties of Woven Kenaf Reinforced PVB Film Produced Using a Hot Press Technique (2016) *International Journal of Polymer Science*, 2016, art. no. 7828451. DOI: 10.1155/2016/7828451.
17. Sharba, M.J., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Azmah Hanim, M.A. Effects of kenaf fiber orientation on mechanical properties and fatigue life of glass/kenaf hybrid composites (2016) *BioResources*, 11 (1), pp. 1448-1465. DOI: 10.15376/biores.11.1.1448-1465
18. Sharba, M.J., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Hanim, M.A.A. Tensile and Compressive Properties of Woven Kenaf/Glass Sandwich Hybrid Composites (2016) *International Journal of*

- Polymer Science, 2016, art. no. 1235048, DOI: 10.1155/2016/1235048
19. Delgoshaei, A., Ariffin, M.K.A.M., **Leman, Z.**, Baharudin, B.T.H.T.B., Gomes, C. Review of evolution of cellular manufacturing system's approaches: Material transferring models (2016) International Journal of Precision Engineering and Manufacturing, 17 (1), pp. 131-149. DOI: 10.1007/s12541-016-0017-9
 20. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Measurement of ballistic impact properties of woven kenaf-aramid hybrid composite (2016) Measurement: Journal of the International Measurement Confederation, 77, pp. 335-343. DOI: 10.1016/j.measurement.2015.09.016
 21. Salman, S.D., **Leman, Z.**, Sultan, M.T., Ishak, M.R., Cardona, F. The effects of orientation on the mechanical and morphological properties of woven kenaf-reinforced poly vinyl butyral film (2016) BioResources, 11 (1), pp. 1176-1188. DOI: 10.15376/biores.11.1.1176-1188
 22. Sharba, M.J., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Azmah Hanim, M.A. Partial replacement of glass fiber by woven kenaf in hybrid composites and its effect on monotonic and fatigue properties (2016) BioResources, 11 (1), pp. 2665-2683. DOI: 10.15376/biores.11.1.2665-2683
 23. Houshyar, A.N., **Leman, Z.**, Ariffin, M.K.A.M., Ismail, N., Moghadam, H.P., Iranmanesh, H. Proposed linear-mathematical model for configuring cell and designing unequal-area facility layout in dynamic cellular manufacturing system (2016) International Journal of Industrial and Systems Engineering, 22 (3), pp. 332-357. DOI: 10.1504/IJISE.2016.074710
 24. Salman, S.D., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Cardona, F. Influence of resin system on the energy absorption capability and morphological properties of plain woven kenaf composites (2015) IOP Conference Series: Materials Science and Engineering, 100 (1), art. no. 012053, DOI: 10.1088/1757-899X/100/1/012053
 25. Sharba, M.J., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Hanim, M.A.A. Monotonic and fatigue properties of kenaf /glass hybrid composites under fully reversed cyclic loading (2015) IOP Conference Series: Materials Science and Engineering, 100 (1), art. no. 012055, DOI: 10.1088/1757-899X/100/1/012055.
 26. Misri, S., Ishak, M.R., Sapuan, S.M., **Leman, Z.** The effect of winding angles on crushing behavior of filament wound hollow kenaf yarn fibre reinforced unsaturated polyester composites (2015) Fibers and Polymers, 16 (10), pp. 2266-2275. DOI: 10.1007/s12221-015-5447-y
 27. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Effect of layering sequence and chemical treatment on the mechanical properties of woven kenaf-aramid hybrid laminated composites (2015) Materials and Design, 67, pp. 173-179. DOI: 10.1016/j.matdes.2014.11.024
 28. Gholizadeh, S., **Leman, Z.**, Baharudin, B.T.H.T. A review of the application of acoustic emission technique in engineering (2015) Structural Engineering and Mechanics, 54 (6), pp. 1075-1095. DOI: 10.12989/sem.2015.54.6.1075
 29. Delgoshaei, A., Ariffin, M.K.M., Baharudin, B.T.H.T.B., **Leman, Z.** Minimizing Makespan of a resource-constrained scheduling problem: A hybrid greedy and genetic algorithms (2015) International Journal of Industrial Engineering Computations, 6 (4), pp. 503-520. DOI: 10.5267/j.ijiec.2015.5.002
 30. Misri, S., Sapuan, S.M., **Leman, Z.**, Ishak, M.R. Torsional behaviour of filament wound kenaf yarn fibre reinforced unsaturated polyester composite hollow shafts (2015) Materials and Design, 65, pp. 953-960. DOI: 10.1016/j.matdes.2014.09.073
 31. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Effects of kenaf contents and fiber orientation on physical, mechanical, and morphological properties of hybrid laminated composites for vehicle spall liners (2015) Polymer Composites, 36 (8), pp. 1469-1476. DOI: 10.1002/pc.23053
 32. Salman, S.D., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Cardona, F. Kenaf/synthetic and Kevlar®/cellulosic fiber-reinforced hybrid composites: A review (2015) BioResources, 10 (4), pp. 8580-8603. DOI: 10.15376/biores.10.4.salman
 33. Sharba, M.J., Salman, S.D., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Azmah Hanim, M.A. Effects of processing method, moisture content, and resin system on physical and mechanical properties of woven kenaf plant fiber composites (2015) BioResources, 11 (1), pp. 1466-1476. DOI: 10.15376/biores.11.1.1466-1476
 34. Salman, S.D., Sharba, M.J., **Leman, Z.**, Sultan, M.T.H., Ishak, M.R., Cardona, F. Physical, Mechanical, and Morphological Properties of Woven Kenaf/Polymer Composites Produced Using a Vacuum Infusion Technique (2015) International Journal of Polymer Science, 2015, art. no. 894565, DOI: 10.1155/2015/894565
 35. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Quasi-static penetration and ballistic properties of kenaf-aramid hybrid composites (2014) Materials and Design, 63, pp. 775-

782. DOI: 10.1016/j.matdes.2014.07.010
36. Ishak, M.R., **Leman, Z.**, Sapuan, S.M., Rahman, M.Z.A., Anwar, U.M.K. Enhancement of Physical and Mechanical Properties of Sugar Palm Fiber via Vacuum Resin Impregnation (2014) *Advanced Materials for Agriculture, Food and Environmental Safety*, pp. 121-144. DOI: 10.1002/9781118773857.ch5
 37. Bareji, P., Ismail, N., **Leman, Z.** Review of lean adoption within small and medium sized enterprises (2014) *Advanced Materials Research*, 903, pp. 414-418. DOI: 10.4028/www.scientific.net/AMR.903.414
 38. Ahmad, M.S., Baharudin, B.T.H.T., **Leman, Z.**, Ismail, N., Sulaiman, S. Thermal parameter affects on the part built using 3D printer projet SD 3000 (2014) *Materials Science Forum*, 773-774, pp. 833-841. DOI: 10.4028/www.scientific.net/MSF.773-774.833
 39. Samani, M.A., Ismail, N., **Leman, Z.**, Zulkifli, N. Quality management system and risk management system: Similarities and possibilities for integration (2014) *Applied Mechanics and Materials*, 564, pp. 700-705. DOI: 10.4028/www.scientific.net/AMM.564.700
 40. Moayedfar, M., **Leman, Z.**, Baharudin, B.T.H.T. Incremental sheet forming (ISF) of AISI 316 stainless steel sheet using CNC milling machine (2014) *Advanced Materials Research*, 939, pp. 322-327. DOI: 10.4028/www.scientific.net/AMR.939.322
 41. Misri, S., Sapuan, S.M., **Leman, Z.**, Ishak, M.R. Tensile properties of kenaf yarn fibre reinforced unsaturated polyester composites at different fibre orientations (2014) *Applied Mechanics and Materials*, 564, pp. 412-417. DOI: 10.4028/www.scientific.net/AMM.564.412
 42. Yahaya, R., Sapuan, S.M., **Leman, Z.**, Zainudin, E.S. Selection of natural fibre for hybrid laminated composites vehicle spall liners using analytical hierarchy process (AHP) (2014) *Applied Mechanics and Materials*, 564, pp. 400-405. DOI: 10.4028/www.scientific.net/AMM.564.400
 43. Kasim, N.I., **Leman, Z.**, Musa, M.A., Baharudin, B.T.H.T. Cab transfer process improvement at an automotive manufacturing facility (2014) *Applied Mechanics and Materials*, 564, pp. 105-109. DOI: 10.4028/www.scientific.net/AMM.564.105
 44. Jourabchi, S.M.M., Arabian, T., **Leman, Z.**, Ismail, Md.Y.B. Contribution of lean and Six Sigma to effective cost of quality management (2014) *International Journal of Productivity and Quality Management*, 14 (2), pp. 149-165. DOI: 10.1504/IJPQM.2014.064473
 45. Molamohamadi, Z., Ismail, N., **Leman, Z.**, Zulkifli, N. Reviewing the literature of inventory models under trade credit contact (2014) *Discrete Dynamics in Nature and Society*, 2014, art. no. 975425, DOI: 10.1155/2014/975425
 46. Molamohamadi, Z., Ismail, N., **Leman, Z.**, Norzima, Z. Developing a framework for sustainable supply chain management (2014) *Applied Mechanics and Materials*, 564, pp. 661-666. DOI: 10.4028/www.scientific.net/AMM.564.661
 47. Delgoshaei, A., Ariffin, M.K., Baharudin, B.T.H.T.B., **Leman, Z.** A backward approach for maximizing net present value of multimode pre-emptive resource-constrained project scheduling problem with discounted cash flows using simulated annealing algorithm (2014) *International Journal of Industrial Engineering and Management*, 5 (3), pp. 151-158.
 48. Mokhtarisani, M., Zarei, M.M., **Leman, Z.** Influence of leadership behavior on project management performance in Malaysian industries (2014) *Applied Mechanics and Materials*, 564, pp. 673-677. DOI: 10.4028/www.scientific.net/AMM.564.673
 49. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Mechanical performance of woven kenaf-Kevlar hybrid composites (2014) *Journal of Reinforced Plastics and Composites*, 33 (24), pp. 2242-2254. DOI: 10.1177/0731684414559864
 50. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Effect of post curing, fibre content and resin-hardener mixing ratio on the properties of kenaf-aramid hybrid composites (2014) *Applied Mechanics and Materials*, 548-549, pp. 7-11. DOI: 10.4028/www.scientific.net/AMM.548-549.7
 51. Houshyar, A.N., **Leman, Z.**, Moghadam, H.P., Ariffin, M.K.A.M., Ismail, N., Iranmanesh, H. Literature review on dynamic cellular manufacturing system (2014) *IOP Conference Series: Materials Science and Engineering*, 58 (1), art. no. 012016, DOI: 10.1088/1757-899X/58/1/012016
 52. Nouri Houshyar, A., **Leman, Z.**, Pakzad, H., Ariffin, M.K.A.M., Ismail, N., Iranmanesh, H. Review on dynamic cellular manufacturing system(2014) *Advanced Science Letters*, 20 (10-12), pp. 2309-2312. DOI: 10.1166/asl.2014.5721
 53. Ibrahim, A.H., **Leman, Z.**, Mohd Sapuan, S. Tensile properties of impregnated sugar palm (*Arenga pinnata*) fibre composite filled thermosetting polymer composites (2013) *Advanced Materials Research*, 701, pp. 8-11. DOI: 10.4028/www.scientific.net/AMR.701.8
 54. Falatoonitoosi, E., **Leman, Z.**, Sorooshian, S. Modeling for green supply chain evaluation (2013)

- Mathematical Problems in Engineering, 2013, art. no. 201208, DOI: 10.1155/2013/201208
55. Falatoonitoosi, E., **Leman, Z.**, Sorooshian, S., Salimi, M. Decision-making trial and evaluation laboratory (2013) Research Journal of Applied Sciences, Engineering and Technology, 5 (13), pp. 3476-3480.
 56. Khor, L.S., **Leman, Z.**, Lee, C.H. Interfacial debonding force and shear strength of sugar palm (arenga pinnata) fiber reinforced composites by pull-out test (2013) Advanced Materials Research, 634-638 (1), pp. 1931-1936. DOI: 10.4028/www.scientific.net/AMR.634-638.1931
 57. Ishak, M.R., **Leman, Z.**, Sapuan, S.M., Rahman, M.Z.A., Anwar, U.M.K. Impregnation modification of sugar palm fibres with phenol formaldehyde and unsaturated polyester (2013) Fibers and Polymers, 14 (2), pp. 250-257. DOI: 10.1007/s12221-013-0250-0
 58. Ishak, M.R., **Leman, Z.**, Salit, M.S., Rahman, M.Z.A., Anwar Uyup, M.K., Akhtar, R. IFSS, TG, FT-IR spectra of impregnated sugar palm (Arenga pinnata) fibres and mechanical properties of their composites (2013) Journal of Thermal Analysis and Calorimetry, 111 (2), pp. 1375-1383. DOI: 10.1007/s10973-012-2457-5
 59. Darestani, S.A., Houshyar, A.N., Ismail, N., **Leman, Z.** Improving purchasing performance by implementation of QMS process management approach in a manufacturing company (2013) Advanced Materials Research, 622, pp. 1868-1872. DOI: 10.4028/www.scientific.net/AMR.622-623.1868
 60. Ishak, M.R., Sapuan, S.M., **Leman, Z.**, Rahman, M.Z.A., Anwar, U.M.K., Siregar, J.P. Sugar palm (Arenga pinnata): Its fibres, polymers and composites (2013) Carbohydrate Polymers, 91 (2), pp. 699-710. DOI: 10.1016/j.carbpol.2012.07.073
 61. Ishak, M.R., **Leman, Z.**, Sapuan, S.M., Rahman, M.Z.A., Anwar, U.M.K. Chemical Composition and FT-IR Spectra of Sugar Palm (Arenga pinnata) Fibers Obtained from Different Heights (2013) Journal of Natural Fibers, 10 (2), pp. 83-97. DOI: 10.1080/15440478.2012.733517
 62. Afsharhanaei, A., **Leman, Z.**, Ismail, N. Comparison of STEP-NC with ISO6983 in terms of manufacturing interoperability (2012) Applied Mechanics and Materials, 229-231, pp. 2556-2561. DOI: 10.4028/www.scientific.net/AMM.229-231.2556
 63. Ghaderi, H., Darestani, S.A., **Leman, Z.**, Ismail, M.Y. Horizontal collaboration in logistics: A feasible task for group purchasing (2012) International Journal of Procurement Management, 5 (1), pp. 43-54. DOI: 10.1504/IJPM.2012.044153
 64. Baharudin, B.T.H.T., Ibrahim, M.R., Ismail, N., **Leman, Z.**, Ariffin, M.K.A., Majid, D.L. Experimental investigation of HSS face milling to AL6061 using taguchi method (2012) Procedia Engineering, 50, pp. 933-941. DOI: 10.1016/j.proeng.2012.10.101
 65. Nojabaei, S., **Leman, Z.**, Tang, S.H., Sulaiman, S. Development of priority oriented scheduling method to increase the reliability of manufacturing systems (2012) American Journal of Applied Sciences, 9 (9), pp. 1435-1442.
 66. Ishak, M.R., Sapuan, S.M., **Leman, Z.**, Rahman, M.Z.A., Anwar, U.M.K. Characterization of sugar palm (Arenga pinnata) fibres Tensile and thermal properties (2012) Journal of Thermal Analysis and Calorimetry, 109 (2), pp. 981-989. DOI: 10.1007/s10973-011-1785-1
 67. Mokhtar, M.S.M., Baharudin, B.T.H.T., Ismail, N., **Leman, Z.** A comparison study on different toolpath strategy in pocket milling of AISI 420 stainless steel (2012) Advanced Science Letters, 13, pp. 853-857. DOI: 10.1166/asl.2012.3896
 68. Sapuan, S.M., Kho, J.Y., Zainudin, E.S., **Leman, Z.**, Ahmed Ali, B.A., Hambali, A. Materials selection for natural fiber reinforced polymer composites using analytical hierarchy process (2011) Indian Journal of Engineering and Materials Sciences, 18 (4), pp. 255-267.
 69. **Leman, Z.**, Sapuan, S.M., Suppiah, S. Sugar palm fibre-reinforced unsaturated polyester composite interface characterisation by pull-out test (2011) Key Engineering Materials, 471-472, pp. 1034-1039. DOI: 10.4028/www.scientific.net/KEM.471-472.1034
 70. Ishak, M.R., **Leman, Z.**, Sapuan, S.M., Rahman, M.Z.A., Anwar, U.M.K. Effects of impregnation pressure on physical and tensile properties of impregnated sugar palm (Arenga pinnata) fibres (2011) Key Engineering Materials, 471-472, pp. 1153-1158. DOI: 10.4028/www.scientific.net/KEM.471-472.1153
 71. Ishak, M.R., **Leman, Z.**, Sapuan, S.M., Rahman, M.Z.A., Anwar, U.M.K. Effects of impregnation time on physical and tensile properties of impregnated sugar palm (Arenga pinnata) fibres (2011) Key Engineering Materials, 471-472, pp. 1147-1152. DOI: 10.4028/www.scientific.net/KEM.471-472.1147
 72. Sapuan, S.M., Mustapha, F., Majid, D.L., **Leman, Z.**, Ariff, A.H.M., Ariffin, M.K.A., Zuhri, M.Y.M., Ishak, M.R., Sahari, J. Key Engineering Materials: Preface (2011) Key Engineering Materials, 471-472, p. 1.
 73. **Leman, Z.**, Sapuan, S.M., Ishak, M.R., Ahmad, M.M.H.M. Pre-treatment by water retting to

- improve the interfacial bonding strength of sugar palm fibre reinforced epoxy composite (2010) *Polymers from Renewable Resources*, 1 (1), pp. 35-45.
74. Ghaderi, H., Darestani, S.A., **Leman, Z.**, Ismail, M.Y. Development of a soft network model to improve supply chain management performance of SMEs (2010) *Scientific Research and Essays*, 5 (13), pp. 1759-1764.
 75. Ishak, M.R., **Leman, Z.**, Sapuan, S.M., Salleh, M.Y., Misri, S. The effect of sea water treatment on the impact and flexural strength of sugar palm fibre reinforced epoxy composites (2009) *International Journal of Mechanical and Materials Engineering*, 4 (3), pp. 316-320.
 76. Ahmad, A.H., **Leman, Z.**, Azmir, M.A., Muhamad, K.F., Harun, W.S.W., Juliawati, A., Alias, A.B.S. Optimization of warpage defect in injection moulding process using ABS material (2009) *Proceedings - 2009 3rd Asia International Conference on Modelling and Simulation, AMS 2009*, art. no. 5072032, pp. 470-474. DOI: 10.1109/AMS.2009.120
 77. **Leman, Z.**, Sapuan, S.M., Azwan, M., Ahmad, M.M.H.M., Maleque, M.A. The effect of environmental treatments on fiber surface properties and tensile strength of sugar palm fiber-reinforced epoxy composites (2008) *Polymer - Plastics Technology and Engineering*, 47 (6), pp. 606-612. DOI: 10.1080/03602550802059451
 78. **Leman, Z.**, Sapuan, S.M., Saifol, A.M., Maleque, M.A., Ahmad, M.M.H.M. Moisture absorption behavior of sugar palm fiber reinforced epoxy composites (2008) *Materials and Design*, 29 (8), pp. 1666-1670. DOI: 10.1016/j.matdes.2007.11.004

Non-Citation Indexed Journals

79. Yahaya, R., Sapuan, S.M., Jawaid, M., **Leman, Z.**, Zainudin, E.S. Effect of fibre orientations on the mechanical properties of kenaf – aramid hybrid composites for spall-liner application (2016) *Def. Technol.*, 12, pp. 52-58.
80. Molamohamadi, Z., Ismail, N., **Leman, Z.**, Zulkifli, N. Reviewing the literature of inventory models under trade credit contact. *Discrete Dynamics in Nature and Society*, 2014 (2014).
81. Ghaderi, H., **Leman, Z.** Horizontal collaboration in purchasing. A successful case from small and medium enterprises (SMEs) (2013) *African Journal of Business Management*, 7, pp. 750-753.
82. Falatoonitoosi, E., **Leman, Z.**, Sorooshian, S. Casual strategy mapping using integrated BSC and MCDM-DEMATEL (2012) *Journal of American Science*, 8 (5), pp. 424-428.
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2. Salman, S.D., **Leman, Z.**, Sultan, M.T.H., M.R. Ishak and Cardona, F., Influence of Resin System on the Energy Absorption Capability and Morphological Properties of Plain Woven Kenaf Composites, *International Conference on Mechanical Engineering Research 2015*, pp. 1-9.
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 9. S. Misri, S.M. Sapuan, **Z. Leman** and M.R. Ishak, Improvement of Filament Winding Machine for Kenaf Fibre Reinforced Composite Application, Proceedings of 2nd UPM-UniKL Symposium on Polymeric Materials 2013, pp. 91-96.
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 13. Ishak, M.R., Sapuan, S.M., **Leman, Z.**, Rahman, M.Z.A., Anwar, U.M.K., Chua, J.C., Physical properties of impregnated sugar palm fibre-reinforced unsaturated polyester composite (2011) Book of Abstract of the International Conference on Innovation in Polymer Science and Technology (IPST2011). pp. 161.
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 15. **Z. Leman**, S.M. Sapuan and S. Suppiah, Sugar palm fibre-reinforced unsaturated polyester composite interface characterisation by pull-out test, 8th International Conference on Composite Science and Technology 2011 (ICCST8), pp. 178-
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 22. Ishak, M.R., Sapuan, S.M., **Leman, Z.**, Sahari, J., Development of dimensionally stable sugar palm fibre composites, (2010), Proceeding of the 2nd Postgraduate Seminar on Natural Fibre Composite, pp. 17-27.

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 47. Mohd Asyraf Che Doi, Rosnah Mohd Yusuff, **Zulkiflle Leman**, A Preliminary Study of Prevalence of Musculoskeletal Disorders Among Malaysian Rubber Tappers, Proceedings of Agriculture Ergonomics Development Conference (AEDeC 2007), pp. 146-151.
 48. Wan Mohd Sufian Wan Husain, Sapuan Salit and **Zulkiflle Leman**, Cost Estimation of Natural Fibre Composites, National Seminar on Science Technology & Social Sciences, (2006), pp. 231-238.
 49. Mohd Amran Ali and **Zulkiflle Leman**, Analysis of Plastic Flow Inside the Family Mould, Proceeding of the National Conference on Design and Concurrent Engineering (DECON 2006).
 50. Ariffin, M.K.A., Sulaiman, S., Hamdan, M.M., **Leman, Z.**, Ismail, N. Design, analysis and fabrication of plastic injection mould for the tensile test specimen (2002) Proceedings of the World Engineering Congress 2002 (WEC 2002), Manufacturing Engineering, Automation and Robotics, pp. 329-332.
 51. **Z. Leman**, C.K.Chin and Y.K.Leong, Curing Characteristics and Mechanical Properties of XLPE, Mechanical and Aerospace Engineering Proceedings, 2nd World Engineering Congress (WEC 2002), pp. 329-332.
 52. N.Ismail, S.S.Tai and **Z. Leman**, Improving Productivity and Efficiency of a Vehicle Seat Assembly Line in a Manufacturing Company, Student Conference on Research and Development Proceedings, (SCORed2002).
 53. **Leman, Z.**, Coates, P.D., Maxfield, R. Comparison of injection moulding simulation and in-process measurements (1997) Annual Technical Conference - ANTEC, Conference Proceedings, 1, pp. 1037-1041.

Books

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2. S.M. Sapuan, F. Mustapha, D.L. Majid, **Z. Leman**, A.H.M. Ariff, M.K.A. Ariffin, M.Y.M. Zuhri, M.R. Ishak and J. Sahari, (2011). Composite Science and Technology: Key Engineering Materials Vol 471-472.

Chapter in Books

1. Mohamad Ridzwan Ishak, Mohamad Zaki Bin Ab. Rahman, Mohd. Sapuan Salit, **Zulkiflle Leman**, UMK Anwar, Enhancement of physical and mechanical properties of sugar palm fibre via vacuum impregnation, Advanced Materials for Agriculture, Food and Environmental Safety, edited by Ashutosh Tiwari and Mikael Syvajarvi, (2014). Scrivener LLC and John Wiley & Sons, Inc., Salem, MA, USA and Hoboken, NJ, USA, pp. 121-144, ISBN: 978-1-118-77343-7.
2. **Z. Leman** and S.M. Sapuan, Interfacial Adhesion Enhancement Methods for Natural Fibre Reinforced Polymer Composites, Engineering Composites: Properties & Applications, edited by Mohd Sapuan Salit, (2014), UPM Publisher, pp. 107-121. ISBN: 9789673443963.
3. S. Misri, **Z. Leman** and S.M. Sapuan, Total Design of a Small Boat Using Woven Glass-Sugar



Palm Fibre Reinforced Unsaturated Polyester Composites, Engineering Composites: Properties & Applications, edited by Mohd Sapuan Salit, (2014), UPM Publisher, pp. 224-247. ISBN: 9789673443963.

4. S. Misri, **Z. Leman** and S.M. Sapuan, A Small Boat From Woven Glass-Sugar Palm Fibre Reinforced Unsaturated Polyester Composites, Engineering Composites: Properties & Applications, edited by Mohd Sapuan Salit, (2014), UPM Publisher, pp. 297-312. ISBN: 9789673443963.
5. S. Misri, M.R. Ishak, S.M. Sapuan, and **Z. Leman**, Filament Winding Process for Kenaf Fibre Reinforced Polymer Composites, Manufacturing of Natural Fibre Reinforced Polymer Composites, edited by Mohd Sapuan Salit, Mohamad Jawaid, Nukman bin Yusoff and Md Enamul Hoque, (2015), Springer International Publishing Switzerland, pp. 369-383. ISBN: 978-3-319-07944-8.

Other Publications

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 Sahsiah 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

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 | RUGS UPM (IPS) |
| 6. | Viability Of Microwave Sintering Process To Produce Ceramic Tool Inserts (co-researcher) | 15,000 | 2012-2014 | RUGS UPM (IPS) |
| 7. | Determination of Low and High Velocity Impact Properties of Kenaf-Kevlar Reinforced Hybrid Composites (leader) | 15,000 | 2014-2016 | RUGS UPM (IPS) |
| 8. | Mechanical characterization, effect of hygrothermal conditioning and failure analysis research on carbon/flax fibre based epoxy Al | 113,800 | 2015-2018 | FRGS KPT |

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|-----|--|---------|-----------|-----------------|
| | metal laminate (FML) for future use in Aircrafts (co-researcher) | | | |
| 9. | Development of glass/sugar palm fibre reinforced polyurethane hybrid composites for automotive anti-roll bar (co-researcher) | 556,800 | 2015-2016 | UPM PUTRA (IPB) |
| 10. | Characteristics of Tribological Properties of Sugar Palm Fiber reinforced Composite Materials (leader) | 15,000 | 2015-2017 | RUGS UPM (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 | 20,000 | 2016-2018 | RUGS UPM (IPS) |

Awards/Recognitions

| Num | Name of awards | Title | Award Authority | Award Type | Year |
|-----|-------------------------------|--|--|------------|--------------------------------|
| 1. | Silver Medal | Development of Ijuk (Arenga Pinnata) Fiber Biocomposite for Small Boat Application | (PRPi10) Invention, Research and Innovation Exhibition UPM | | 2010 |
| 2. | Best Oral Presentation | Postgraduate Seminar on Natural Fibre Composites | Faculty of Engineering | I | 2008 |
| 3. | Excellence Service | | UPM | | 2004,2005 2007 2009-2015 |
| 4. | Excellence Teaching | | Faculty of Engineering | | 2001 2007-2009 |
| 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 |



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|-----|-----------------------|------------------------------|--|------|
| 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 |

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 2106) | HKSME | Conference reviewer |
| 13. | 2014 | Asas Pemprosesan Pultrusi Bagi Komposit Diperkukuh Bahan Semulajadi | Penerbit UniMAP | Penilai manuskrip |
| 14. | 2013 | International Conference on Advances in | UPM | Conference |



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|-----|------------|--|---|--------------------------|
| | | Mechanical and Manufacturing Engineering | | 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 | 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 | Composites Part B | Elsevier | Journal reviewer |
| 43. | 2016 | International Journal of Manufacturing Technology and Management | Inderscience Publishers | Journal reviewer |
| 44. | 2016 | Reference Module in Materials Science and Materials Engineering | Elsevier Inc. | Review Editor |
| 45. | 2016 | Journal of Advanced Research in Computing and Applications | Akademia Baru | Journal reviewer |
| 46. | 2017 | Malaysian Construction Research Journal | CREAM CIDB | Editorial Advisory |



| Student Supervision | | | |
|------------------------------|--|--|---------------|
| PhD (Main Supervisor) | | | |
| No. | Name | Title | Status |
| 1. | Mohamad Ridzwan bin Ishak (GS26467) | Enhancement of Physical Properties of Sugar Palm (Arenga Pinnata Merr.) 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. | Mageswaran a/l Arunasalam Mohammed (GS36238) | Process Improvement In Lead Free Wave Soldering Processes In Surface Mount Technology | Ongoing |
| 4. | Suhad Dawood Salman (GS37260) | Hybrid Fiber Reinforced Composite For Use In Military Helmets | Completed |
| 5. | Noor Syarida binti Abdul Rahman (GS37487) | Identification and Mitigation of Bottlenecks In Manufacturing Systems To Improve The Productivity Performance Using Value Engineering Approach | Ongoing |
| 6. | Bt Iskandar Zulkarnain bin Baharudin (GS37694) | Critical Success Factors For Toyota Production System (Tps) Implementation In Malaysia Automotive Manufacturing Small And Medium Sized Enterprise (SMEs) Through Japanese Culture. | Ongoing |
| 7. | Mohaiman Jaffar Kashkol (GS38220) | Monotonic and Fatigue Properties of Kenaf/Glass Reinforced Unsaturated Polyester Hybrid Composites For Structural Applications | Graduated |
| 8. | Mohd Shahrizan bin Yusoff (GS38448) | Development of Synergistic Operational Model Towards Sustainability Lean Manufacturing Practice For Malaysian Small and Medium-Sized Industry | Ongoing |
| 9. | Bushra Rashid Mohammed (GS38642) | Characterization and Development of Sugar Palm Fibers Composite As Friction Materials | Ongoing |
| 10. | 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 | Ongoing |
| 11. | Mukhtar Isma'ila (GS46127) | Characterization and Optimization of Physical, Mechanical, Tribological and Thermal Properties of Sugar Palm Fibre Reinforced Polypropylene Composite For Automobile Applications | Ongoing |
| 12. | Sujith Bobba (GS46375) | Repair of Damaged Fiber Reinforced Pipes By Pressure Impact Using S-2 Glass Composite Patches Externally. | Ongoing |
| 13. | Normah binti Kassim (GS47084) | Development of Design Specifications for Expanded Polystyrene (EPS) in Product Packaging | Ongoing |
| 14. | Ekmal Hakim bin Zainuddin (GS48709) | Localised Facility Design of Highly Potent Active Pharmaceutical Ingredients (HAPI) Products | Ongoing |
| PhD (Co-supervisor) | | | |
| 13. | Mahmoud Asad Samani (GS31897) | Development of A Conceptual Framework To Integrate Quality Management System and Risk Management System | Graduated |
| 14. | Zohreh Molamohamadi (GS33361) | Development of A Two-Level Trade Credit Model With Shortage For Deteriorating Products Using Hybrid Metaheuristic Algorithm | Graduated |
| 15. | Aidin Delgoshaei (GS33677) | Scheduling Dynamic Cellular Manufacturing Systems In The Presence of Cost Uncertainty | Graduated |

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|-----|--|---|-----------|
| 16. | Ridwan bin Yahaya (GS35511) | Using Heuristic Method Mechanical and Ballistic Properties of Natural Fibre-Aramid Hybrid Laminated Composites | Graduated |
| 17. | 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 |
| 18. | Sairizal bin Misri (GS32397) | Investigation on The Structural Behavior of Filament Wound Kenaf Yarn Fibre Reinforced Unsaturated Polyester Composites | Graduated |
| 19. | Chng Ming Hui (GS35962) | R32 Refrigerant Flow Maldistribution Correlation Development and Quantitative Analysis of Microchannel Heat Exchanger | Graduated |
| 20. | Hammajam A. Abba (GS39781) | Physio-Mechanical Properties of Millet Husk (Pennisetum Glaucum [Linn.]) Filled High Density Polyethylene and Poly-lactic Acid Composites | Ongoing |
| 21. | Mohamed Mohamed. M. Alkateb (GS41834) | Crushing Behavior of Natural Fiber-Reinforced Elliptical Composite Cones | Ongoing |
| 22. | Nor Aznan bin Mohd Nor (GS42003) | Effect of Chip Load and Spindle Speed on The Cutting Force of An End Milling Process | Ongoing |

MS 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. | Samira Gholizadeh (GS36314) | Glass Fiber-Reinforced Polyester Composite Fatigue Crack Monitoring Using Acoustic Emission | Graduated |
| 7. | Abu Hatim bin Ibrahim (GS32474) | Effects of Flame-Retardant Agents on Mechanical Properties and Flammability of Impregnated Sugar Palm Fibre-Reinforced Polymer Composites | Graduated |

MS with thesis (Co-supervisor)

| | | | |
|-----|---|--|-----------|
| 8. | Syedefarzaneh Nojabaei (GS26533) | Development of Priority-Oriented Scheduling Method To Increase Efficiency and Reliability For Automotive Paint Job | Graduated |
| 9. | Ong Siew Ying (GS29166) | Improved Define-Measure-Analyze-Improve-Control Methodology For Process Improvement In Semiconductor Industry | Graduated |
| 10. | Shahdura bte Hammad Thauri (GS30401) | Viability of Microwave Sintering Process To Produce Ceramic Tool Inserts | Graduated |
| 11. | Muhammad Ammar bin Ishak (GS45810) | Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composite With Different Arrangement of Reinforcement | Ongoing |
| 12. | Muhammad Huzaifah bin Mohd Roslim (GS45811) | Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites With Reinforcements Obtained | Ongoing |

From Different Geographical Locations

| MS without Thesis (Main Supervisor) | | | |
|--|---|---|---------------|
| No. | Name | Title | Status |
| 1. | Kalalarasu Gengiah (2006/2007) | Implementation of Reliability-based Maintenance in Petrochemical Industry | Graduated |
| 2. | Mohamad Adzizolrohim Abd Malek (2006/2007) | Maintenance Management of Mechanical Equipment in Government Buildings | Graduated |
| 3. | Asnul Hadi B. Ahmad (2007/2008) | Warping defect on different raw material of injection moulding machine | Graduated |
| 4. | Yousuf Ali (2007/2008) | Barriers of Achieving Zero Inventory When Implementing Just In Time Approach in the Industry | 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) | Design and Analysis of Plastic Injection Mould Using DOE and Mould Analysis | 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 - quality tool | Graduated |
| 10. | Aead M. Ahmed (2008/2009) | To design a street lighting lamp using LED | Graduated |
| 11. | Hani Mizhr (2008/2009) | Study the effect of design parameters on products quality in plastic moulds | Graduated |
| 12. | Wael Salah Hossein (2008/2009) | Development of Forecasting Software for SMIs | Graduated |
| 13. | Nor Diana Ashim (2008/2009) | Experiment in Casting Process | Graduated |
| 14. | Kharra Ayu Bt. Agil (2008/2009) | Product inventory management system | Graduated |
| 15. | Omar B. Aziz (2008/2009) | Balance Score Card | Graduated |
| 16. | Akram Sa Hamid (2008/2009) | Casting | Graduated |
| 17. | Soraya Hani Zainalabidin (2008/2009) | Group supply chain management system or 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) | Culture Change of Merging | Graduated |
| 23. | Wong Yon Tin (2010/2011) | Simulation of Injection Moulding | Graduated |
| 24. | Zahra Amirisefat (2010/2011) | Green product market expanding and consumer respond to green alternatives | Graduated |
| 25. | Azwan Rizal Bin Ghazali (2010/2011) | Inventory stock management system in MPPP store | Graduated |
| 26. | Muniandy a/l Ponnasamy | SMIF Pod management in Silterra's Wafer Start | Graduated |

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|-----|---|---|-----------|
| 27. | (2010/2011) Soomu Pillai A/L Letchumanan (2010/2011) | Room: A Lean Approach Improve Cycle Time for Proto Type Lots at Metrology Measurement. | Graduated |
| 28. | Muhammad Fakhri Shamsudin (2010/2011) | Reamer design improvement to improve manufacturing process | Graduated |
| 29. | BT Iskandar Zulkarnain bin Baharudin (2010/2011) | Analysis of rejection rate reduction of metal stamping process | Graduated |
| 30. | Pouyan Jalili (2010/2011) | Simulation-based optimisation on determining the minimum number of logistics equipment in the closed loop network | Graduated |
| 31. | Abdul Hanif bin Ludin (2010/2011) | Design and analysis of 2 plate injection mould | Graduated |
| 32. | Mohammed Ahmed Abdulrahman Baraga'a (2011/2012) | Feasibility of Quality Management System Implementation for Medical Devices | Graduated |
| 33. | Mohammad Borhan (2011/2012) | Polymer Composites | Graduated |
| 34. | Khadijah binti Ishak (2011/2012) | Predictive Maintenance Using Vibration Analysis | Graduated |
| 35. | Nasim Saeedparvar (2011/2012) | Marketing Evaluation | Graduated |
| 36. | Ali Afsharhanaei (2011/2012) | STEP-NC area | Graduated |
| 37. | Abdulhameed Hamid Mohammed Almulsei (2012/2013) | Blue Ocean Strategy in ICT Services | Graduated |
| 38. | Nooraida Azura binti Md Darom (2012/2013) | Total Quality Management | Graduated |
| 39. | Ciavash Mobarezhighi (2012/2013) | Application of Value Engineering and Six Sigma | Graduated |
| 40. | Tamil Selvam Govindarajoo (2012/2013) | Enhancement of Passivation Layer in Wafer Level Chip Select Packaging | Graduated |
| 41. | Bayumi bin Abd Rahman (2012/2013) | Optimisation of CRM System Among Marketers | Graduated |
| 42. | Normah binti Kassim (2012/2013) | Quality Management | Graduated |
| 43. | Assef Shakeri (2012/2013) | Sustainable Construction and Green Building | Graduated |
| 44. | Doreenitha Kanasam (2012/2013) | New Product Development | Graduated |
| 45. | Mohammad Khomehchian (2012/2013) | Value Engineering | Graduated |
| 46. | Zalina binti Ya (2012/2013) | Compression Moulding Design and Analysis | Graduated |
| 47. | Thangaswaran a/l Paramasivan (2013/2014) | Value Engineering | Graduated |
| 48. | K.S. Ushass a/l K.G. Sivan (2013/2014) | Moulding Machine and Mould Compound Design Improvement | Graduated |
| 49. | Suraj Raphael (2013/2014) | Application of Value Engineering at 80-bed Hospital | Graduated |
| 50. | Wan Shazwani Wan Hassim (2013/2014) | Lean Manufacturing | Graduated |
| 51. | Nor Asmah binti Daud (2013/2014) | Reducing Manufacturer's Lead Time by Using Push-Pull Boundary | Graduated |
| 52. | Salamah Ibrahim | Towards A Better Measure of Service Quality | Graduated |

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| | (2013/2014) | | |
| 53. | Muhammad Farizuan Bin Muhammad Fauzi (2014/2015) | Study and analysis of automatic shut off system for domestic cooking gas | Graduated |
| 54. | Mohamad Riza bin Ismail (2014/2015) | Mechanical Properties of Dissimilar Aluminium Joints using Friction Stir Welding (FSW) | Graduated |
| 55. | Mohd Faizal Abu Talib (2014/2015) | Performance analysis of AUV properler using reverse engineering technique | Graduated |
| 56. | Vijaya Rau a/l Aparow (2014/2015) | Integration of Poka Yoke into Process FMEA | Graduated |
| 57. | Mohd Afzainizam bin Aziz (2014/2015) | The Effectiveness of Value Management in Government Project Implementation | Graduated |
| 58. | Husam Mahdi Ahmed (2014/2015) | Development of Quality Assurance Program for Construction Project | Graduated |
| 59. | Mohamad Fazreen bin Maidin (2014/2015) | High Velocity Impact Damage of Composite Structure | Graduated |
| 60. | Ali Hussein Humod (2014/2015) | Improving the Productivity and Quality by Applying Computer Control | Graduated |
| 61. | Sharifah Nur Izatul binti Syed Hizam (2014/2015) | Assembly Line Improvement in an Electronic Plastic Component Manufacturer | Graduated |
| 62. | Nur Farah 'izzati binti Zakaria (2014/2015) | Productivity Improvement in TV Production | Graduated |
| 63. | Zulkarnain bin Abdul Latiff 92014/2015) | Investigate the Effect of Parameters on Mechanical Properties of Part Produce using RP FDM 200MC Machine | Graduated |
| 64. | Raj Mohan a/l Gobi (2015/2016) | Clip Bonder Process Parameter Optimisation for Copper Clip in Semiconductor | Graduated |
| 65. | Noor Aini binti Yaacob (2015/2016) | Managing Localisation Task | Graduated |
| 66. | Azila binti Arzmi (2015/2016) | Public Transport Service Quality | Graduated |
| 67. | Khairuddin bin Hj Osman (2015/2016) | Risk-Based Maintenance Using FMEA Analysis for HF Broadcasting System | Graduated |
| 68. | Rajeswaran a/l Sagarar (2015/2016) | Risk Management in Project Implementation and Operation | Completed |
| 69. | Nurul Haniza binti Khasmuni (2015/2016) | Aero-composite process and quality control | Graduated |
| 70. | Shahrin Azuar bin Mohd Adam (2015/2016) | Design and fabrication of modelling rudder system for surface drive application in fiberglass fishing boats | Graduated |
| 71. | Ahmad Naufal bin Muhammad Mustafa (2015/2016) | Improvement of maintenance system in induction hardening process | Graduated |
| 72. | Yong Kar Foong (2016/2017) | Effect of ribs, part profile and side wall design on plastic injection part strength and warpage. | Completed |
| 73. | Mumtaz Binti Norman (2016/2017) | Mould Filling Analysis of Die Casting Process | Completed |
| 74. | Shehab Rawhan Abdulsameea Abdulraqeb (2016/2017) | Development of plastic sorting system for recycling industry using machine vision | Completed |
| 75. | Nurul Hamizah Binti Mohamed (2016/2017) | Application of waste product as lightweight composite materials | Completed |
| 76. | Norhazlina Nordin (2016/2017) | Kajian Keboleherjaan Graduan Program Peningkatan Tahap Kemahiran Melalui SLDN (Sistem Latihan Dual Nasional) | Completed |

Undergraduate Final Year Project (Main Supervisor)

| No. | Name | Title | Status |
|-----|----------------------------------|--|-----------|
| 1. | Mohamad Saifol Aaisa (2006/2007) | Moisture Absorption Behaviour of Ijuk Fibers | Graduated |

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|-----|--|--|-----------|
| 2. | Azwan Bin Mohd (2006/2007) | The Effect of Treatment on Ijuk Fiber Surface Roughness | Graduated |
| 3. | Lew Kok Leong (2006/2007) | Study on Shore D Hardness of XLPE | Graduated |
| 4. | Mohd Syjaie Bin Md Zuki (2006/2007) | Study on Fiber Composite Boat Manufacturing Method | Graduated |
| 5. | Lau Kah Wai (2007/2008) | Tensile Strength of Sugar Palm Fiber-Reinforced Epoxy Composites | Graduated |
| 6. | Lai Kin Keong (2007/2008) | Impact Strength of Sugar Palm Fiber-Reinforced Epoxy Composites | Graduated |
| 7. | Poh Wen Haur (2007/2008) | Flexural Strength of Sugar Palm Fiber-Reinforced Epoxy Composites | Graduated |
| 8. | Lim Chee Gark (2007/2008) | Mechanical Properties of XLPE | Graduated |
| 9. | Sahadehvah A/L Suppiah (2008/2009) | Analysis Of Interfacial Shear Strength Of Natural Fiber Composite | Graduated |
| 10. | Chia Su Fan (2008/2009) | Mechanical Properties of XLPE | Graduated |
| 11. | Ong Ern Seang (2008/2009) | Mechanical Properties of natural Fiber Reinforced Epoxy Composite | Graduated |
| 12. | Goh Hwee Seong (2008/2009) | Mechanical Properties of natural Fiber Reinforced Epoxy Composite | Graduated |
| 13. | Khor Ling Si (2011/2012) | Interfacial shear strength of natural fibre composite by pull-out test | Graduated |
| 14. | Lee Ching Hao (2011/2012) | Interfacial shear strength of natural fibre composite by pull-out test | Graduated |
| 15. | Stanley Ipoh (2013/2014) | Inter-laminar Shear Strength of Multi-layered Hybrid Composite | Graduated |
| 16. | Mark Stefan bin Natesan (2013/2014) | Mechanical Properties of Multi-layered Hybrid Composite | Graduated |
| 17. | Nurhanani Binti Ahmad (2015/2016) | Characterisation of Banana Pseudo Stem/Glass Fibre Hybrid Composites | Graduated |
| 18. | Aini Nazmin binti Md Zain (2015/2016) | Characterisation of Kevlar/Durian Skin/Phenolic Hybrid Composites | Graduated |
| 19. | Safinaz Binti Saad (2015/2016) | Characterisation of Sago Palm/Carbon Fibre/Epoxy Hybrid Composites | Graduated |

Thesis Examiner in UPM

| No. | Program | Category | Matric No. | Name | Senate Date |
|-----|---------|----------|------------|-----------------------------------|-------------|
| 1 | PhD | Chairman | GS32294JD | Khairul Manami binti Kamarudin | |
| 2 | PhD | Chairman | GS27200 | Ruzaidi bin Zamri | |
| 3 | PhD | Chairman | GS35597 | Munir Faraj Alabrauk | |
| 4 | PhD | Chairman | GS35595 | Ng Tan Ching | 08/09/2016 |
| 5 | PhD | Chairman | GS17768 | Majid Mojahed | 09/10/2014 |
| 6 | PhD | Chairman | GS18764 | Hassan Zareei | 25/06/2015 |
| 7 | PhD | Chairman | GS28524 | Nisreen N. Ali Al-Adnani | 13/08/2015 |
| 8 | PhD | Chairman | GS29868 | Babak Ganjeh | 11/02/2016 |
| 9 | PhD | Chairman | GS17675 | Agung Efriyo Hadi | 08/09/2011 |
| 10 | PhD | Chairman | GS26879 | Saud Said Khalfan Ai-Anbari | 13/08/2015 |
| 11 | PhD | Chairman | GS18909 | Mohammadreza Vasili | 14/07/2011 |
| 12 | PhD | Chairman | GS21318 | Shahryar Sorooshian | 19/03/2012 |
| 13 | PhD | Chairman | GS28266 | Sayed Amir Hossein Khosh Solat | 16/05/2014 |
| 14 | PhD | Chairman | GS30479 | Rosli bin Darmawan | 25/06/2015 |
| 15 | PhD | Chairman | GS31076 | Sayed Mojtaba Zabihinpour Jahromi | 25/06/2015 |
| 16 | PhD | Chairman | GS30204 | Mohd Uzair bin Mohd Rosli | 12/03/2015 |
| 17 | PhD | Chairman | GS31778 | Zahra Firoozi | 12/03/2015 |
| 18 | PhD | Chairman | GS32519 | Tuqa Abdul Razzaq Flayyih | 14/05/2015 |
| 19 | PhD | Chairman | GS21407 | Ali Jahan | 14/07/2011 |
| 20 | PhD | Member | GS35754 | Mehran Tamjidy | |
| 21 | PhD | Member | GS32755 | Mohd Fairuz b Abd Manab | 17/11/2016 |

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|----|--------|----------|---------|-------------------------------------|------------|
| 22 | PhD | Member | GS25863 | Basheer Ahmed Ahmed Ali | 13/08/2015 |
| 23 | PhD | Member | GS19627 | Majid Davoodi Makinejad | 19/03/2012 |
| 24 | PhD | Member | GS22031 | Shahram Ariafer | 14/06/2012 |
| 25 | PhD | Member | GS30956 | Saeed Rahmanian | 25/06/2015 |
| 26 | PhD | Member | GS33793 | Ahmad Hamdan bin Ariffin | 14/04/2016 |
| 27 | PhD | Member | GS30839 | Yusriah binti Lazim | 30/10/2014 |
| 28 | PhD | Member | GS24012 | Yousuf Ali Gumaan El-Shekeil | 22/11/2012 |
| 29 | PhD | Member | GS33519 | Muhd Ridzuan bin Mansor | 09/04/2015 |
| 30 | PhD | Member | GS35274 | Faris Mohammed Khair Faris Al-Oqla | 14/05/2015 |
| 31 | PhD | Member | GS17467 | Fazlollah Agamohamadi Basmenj | 11/09/2014 |
| 32 | PhD | Member | GS15819 | Januar Parlaungan Siregar | 09/06/2011 |
| 33 | PhD | Member | GS23697 | Ana Sakura binti Zainal Abidin | 12/12/2013 |
| 34 | PhD | Member | GS31529 | Shahla Paslar | 11/02/2016 |
| 35 | PhD | Member | GS21306 | Dandi Bachtiar | 09/08/2012 |
| 36 | PhD | Member | GS26836 | Nanang Fatchurrohman | 13/02/2014 |
| 37 | PhD | Member | GS30834 | Morteza Ghobakhloo | 13/08/2015 |
| 38 | PhD | Member | GS25048 | Suriani binti Mat Jusoh | 13/12/2012 |
| 39 | PhD | Member | GS28638 | Marjan Bahrami Nasab | 16/05/2014 |
| 40 | PhD | Member | GS32933 | Mohd Azaman Md Deros | 10/09/2015 |
| 41 | PhD | Member | GS24543 | Iswa Suleiman Aji | 08/12/2011 |
| 42 | Master | Chairman | GS41986 | Nor Atirah bt Mohd Aridi | |
| 43 | Master | Chairman | GS22043 | Mona Kiaee | 13/08/2015 |
| 44 | Master | Chairman | GS29429 | Cheong Xiang Hou | 09/06/2016 |
| 45 | Master | Chairman | GS22498 | Elias Randjbaran | 14/11/2013 |
| 46 | Master | Chairman | GS30408 | Mohammadnassir Sheikholeslam | 09/10/2014 |
| 47 | Master | Chairman | GS32060 | Arash Zaighami | 12/02/2015 |
| 48 | Master | Chairman | GS26931 | Shazed Md. Aziz | 16/05/2013 |
| 49 | Master | Chairman | GS32058 | Ahsanul Kaiser | 10/07/2014 |
| 50 | Master | Chairman | GS34401 | Muath Dheaa Abdulradha Al-Falahi | 10/09/2015 |
| 51 | Master | Chairman | GS27338 | Iman Bayesti | 14/03/2013 |
| 52 | Master | Chairman | GS29439 | Nurhaiza binti Shahrir | 16/05/2013 |
| 53 | Master | Chairman | GS29862 | Altayyeb Abdullah | 15/08/2013 |
| 54 | Master | Chairman | GS36632 | Fahimehsadat Ghorashi Najafabadi | 14/05/2015 |
| 55 | Master | Chairman | GS33160 | Abolfazl Golshan | 20/03/2014 |
| 56 | Master | Member | GS31814 | Norianta binti Mazani | |
| 57 | Master | Member | GS22069 | Negar Jamali | 13/12/2012 |
| 58 | Master | Member | GS25185 | Nor Hanifawati binti Inai | 11/07/2013 |
| 59 | Master | Member | GS25136 | Wan Mohamad Haniffah bin Wan Hussin | 15/05/2012 |
| 60 | Master | Member | GS25370 | Umar bin Abdul Hanan | 22/11/2012 |
| 61 | Master | Member | GS21404 | Marjan Bahrami Nasab | 25/11/2010 |
| 62 | Master | Member | GS25928 | Reza Mehryari Lima | 09/08/2012 |
| 63 | Master | Member | GS32949 | Hammajam A. Abba | 16/05/2014 |
| 64 | Master | Member | GS32590 | Munaim Ali bin Omar Baki | 08/10/2015 |
| 65 | Master | Member | GS23710 | Emiliana Rose binti Jusoh @ Taib | 08/12/2011 |
| 66 | Master | Member | GS31405 | Mahdi Nahavandi | 10/07/2014 |
| 67 | Master | Member | GS23074 | Abdul Hakim bin Abdullah | 09/06/2011 |
| 68 | Master | Member | GS25097 | Mohd Fairuz b Abd Manab | 10/11/2011 |
| 69 | Master | Member | GS25568 | Mohd Firdaus bin Abd Rahman | 13/09/2012 |
| 70 | Master | Member | GS28289 | Mohd Shukri bin Ibrahim | 15/05/2012 |

External Thesis Examiner

| No. | Name | Title | Level | Year |
|-----|---|---|--------|------|
| 1. | Alya Naili Rozhan (GS222034) IIUM, Kulliyah of Engineering | Utilization of Oil Palm Agro-Residues To Produce Carbon-Infiltrated Biochar As An Alternative Energy Source in Ironmaking | PhD | 2016 |
| 2. | Amirul Aliff bin Jamaludin (USM) | An Integration of Taguchi Method and Response Surface Methodology (RSM) on Reprocessed | Master | 2014 |



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|----|-------------------------------|--|--------|------|
| 3. | Amirhossain Goharian (UTM) | Injection Moulded PP Gears for Parameters Optimization Development of Polymer Composite Material Beam Applying for Acetabular Cup | Master | 2012 |
|----|-------------------------------|--|--------|------|

