

# M.M.Noor Curriculum Vitae



Ts. Dr. Muhamad Mat Noor (Ph.D, P.Tech.)  
Director, Universiti Malaysia Pahang (UMP) Press  
Professional Technologist (P.Tech), MBOT, Malaysia  
Advisor, Malaysian Citation Centre (MCC), MoE, Malaysia  
Ex-Dean, Students Development, JHEPA, UMP  
Ex-Director, German Academic & Career Center (GACC), JHEAA, UMP

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**H-Index: Google Scholar = 37, Scopus = 17, WoS = 12**

IJAME & JMES: Web of Science (WoS) & Scopus Indexed Journal

2008 – 2018 Editor in Chief & Founder, International Journal of Automotive & Mechanical Eng. (IJAME).

2014 – 2018 Editor in Chief, Journal of Mechanical Engineering & Sciences (JMES).

1995 – 2006 Engineer / Manager, Sony EMCS (M) Sdn. Bhd., Selangor.

2014 – Now Six Sigma Subject Matter Expert and Moderator, Open University of Malaysia.

## Academic Qualifications

Ph.D. (Mechanical Engineering), University of Southern Queensland (USQ), Queensland, Australia  
Title: Experimental and Numerical Study of MILD Combustion in an Open-End Furnace with Exhaust Gas Recirculation using Methane and Biogas.

M.Sc. (Manufacturing Engineering), Universiti Putra Malaysia (UPM), Serdang, Selangor, Malaysia  
Title: Application of Six Sigma Methodology to Improve Production Assembly Process.

B.Eng. (Hons) (Agriculture Engineering), Universiti Putra Malaysia (UPM), Selangor, Malaysia.

## Brief Profile

Currently, he is Director for UMP Press (Penerbit UMP) (Since Nov 2018 ~ now) and previously Dean of Students Development, UMP Students Affair & Alumni Department and Director for UMP German Academic and Career Center (GACC) in Universiti Malaysia Pahang (UMP) for Jan 2016 to Nov 2018. Besides that, he is an Academician at the Faculty of Mechanical Engineering from 2006 until now. Frequently awarded gold and a special award in invention competition of PECIPTA, ITEX, MTE, and CITREX Malaysia, EiNA German, BIS UK, SIIF Korea and many more including more than 60 UMP Cendekia Bitara Excellence Award for outstanding researchers. He graduated from University Putra Malaysia in 1995 and then he worked as Engineer with Sony EMCS (M) Sdn. Bhd. for about 12 years with his last position as Production, R&D and Control Manager. Besides production and design, his responsibilities include yearly company budget, business strategy, mid-range, and long-range strategic planning. He also holds Black Belt for Six Sigma and leads auditors for ISO9000, ISO14000, OHSAS18000, Integrated Management System (QESH) and Sony supplier green partnership. He has shown vast interest in automotive engineering and heat transfer research area. He also actively involved in Petronas and other oil and gas consultation services. He has published more than 400 papers in international scholarly journals and conference and holds few patents. He is founder and Editor in Chief for International Journal of Automotive & Mechanical Engineering (IJAME) for 2008-2018, Editor in Chief for Journal of Mechanical Engineering & Sciences (JMES) for 2014-2018, editorial board members, guest editors and technical reviewers for many reputed international journals and a conferences committee. He is also actively becoming judges and jury for many invention competitions all over Malaysia. He is Facilitator, Expert Panel, Subject Matter Expert and Moderator for OUM Six Sigma and Science & Technology Research Methodology and Project Risk Management since 2014. He also appointed as Advisor for Malaysian Citation Centre (MCC), Ministry of Education.

## Working Experiences / Appointment

1. Dec 2018 – date Director, UMP Press (Pengaruh Penerbit UMP)
2. Jan 2018 – Nov 2018 Dean, Students Development, JHEPA, UMP
3. Jan 2016 – date Advisor, Malaysian Citation Centre (MCC), MoE, Malaysia
4. Apr 2018 – Mar 2019 Deputy Chairman & Secretary, Council of Dean / Director for Malaysian Universities Co-Curriculum (UniCC), Ministry of Education (MoE) Malaysia
5. Nov 2017 – date Professional Technologist (P.Tech), MBOT – MOSTI, Malaysia
6. Jan 2016 – May 2019 Chairman, Staff Welfare and Sports Club (BKSS), FKM, UMP
7. Feb 2016 – Jan 2018 Director, German Academic and Career Centre (GACC), UMP
8. Feb 2008 – Jan 2018 Research Fellow, Automotive Excellence Centre (AEC), UMP
9. Sep 2014 – Jan 2018 Advisor, Automotive Engineering Research Group (AERG), UMP
10. Mar 2009 – Oct 2010 Deputy Dean (Research & Postgraduate Studies), FKM, UMP
11. Nov 2009 – Dec 2009 Acting Director, Automotive Excellence Centre (AEC), UMP
12. Dec 2007 – Feb 2009 Department Head (Automotive Engineering) FKM, UMP
13. Dec 2006 – Oct 2009 Lecturer, Faculty of Mechanical Engineering (FKM), UMP
14. Jun 1995 – Dec 2006 Manager, Production, R&D, Sony EMCS (M) Sdn. Bhd., Selangor
15. Apr 1995 – Jun 1995 Research Assistant, Engineering Faculty, Universiti Putra Malaysia

### Malaysian Council

1. Dec 2018 – date Council Member - Majlis Penerbitan Ilmiah Malaysia (MAPIM), MoE
2. Jan 2016 – date Panel Advisor - Pusat Sitasi Malaysia (PSM) MoE
3. Jan 2018 – Mar 2019 Deputy Chairman - Majlis Dekan / Pengarah Co-Curriculum Universiti-Universiti Malaysia (UniCC), MoE

## Expert Area

Combustion, Heat Transfer, Nanofluid, Numerical Modelling, Computational Fluid Dynamics, Factory Operation Management, Quality Management, Six Sigma Master Black Belt, Manufacturing System (Electronic Industry), Production Innovation, Supply Chain Management, Business Controller Asia Region (Sony), ISO9000 (QMS) Lead Auditor, ISO14000 (EMS) Lead Auditor, OHSAS18000 (OSHMS) Lead Auditor, Integrated Management System (IMS) Lead Auditor, 5S Trainer and Lead Auditor.

## Research Area / Research Interest

Combustion, Renewable Fuel, Heat Transfer, Nanofluid, Numerical Modelling, Manufacturing Engineering, Lean Manufacturing and Computational Fluid Dynamics.

## Professional Qualifications / Memberships / Affiliations / Experiences

### A) Membership of Professional Body

1. Professional Technologist, Malaysian Board of Technologies (MBOT PT17120136).
2. Graduate Engineer, Board of Engineer, Malaysia (BEM No. 51384A)
3. Graduate Engineer, The Institution of Mechanical Engineers, (IMechE No. 80138207)

4. Graduate Technologist, Malaysian Board of Technologies (MBOT GT17090003).
5. Committee Member, Electric Vehicle Association of Malaysia (EVAM).
6. Fellow Researcher, UMP Automotive Excellent Center (AEC) 2008-2018
7. Member, The Combustion Institute Australian & New Zealand Section (CI ANZ).
8. Founding Member, Malaysian Society of Engineering and Technology (MySET No. 00240)
9. Member, American Society of Mechanical Engineer, (ASME No. 100021844)
10. Member, Society of Automotive Engineers of Japan (JSAE No. 1137927)
11. Member, Arab Researcher, International (ARID 0002-3719)
12. Member, UMP Staff Academic Association (PAKAD 058)
13. Academic Advisor, Malaysian Steam & IC Engine Engineer Association (MSIEA), 2015
14. Member, International Association for Computational Mechanics (IACM)
15. Member, International Research Alliance for Science & Technology, (IRAST 10005030)
16. Member, World Association of Science Engineering (WASE0000564)
17. Member, International Society of Six Sigma Professionals (ISSSP)
18. Member, World Scientific and Engineering Academy and Society, (WSEAS) Wisconsin, USA
19. Member, European Scientific Association of Material Forming (ESAFORM), 2014
20. Member, The International Society of Science Information and Technology (ISSIT), 2016

#### **B) Professional Experience**

1. Certified Auditor, QMS, ISO9000, since 1996.
2. Certified Lead Auditor, QMS, ISO9000, since 1999.
3. Certified Lead Auditor, EMS, ISO14000, since 2002.
4. Certified Lead Auditor, OSHMS, OHSAS18000, since 2002.
5. Certified Lead Auditor, Advance Integrated Management System, since 2004.
6. Certified Green Belts, Six Sigma Green Belts (Sony Corporation), since 2001.
7. Certified Black Belts, Six Sigma Master Black Belts (Sony Corporation), since 2003.
8. Certified Lead Auditor, Sony Supplier Green Partner, since 2002.
9. Subject Matter Expert, OUM Six Sigma, Open University Malaysia, since 2015.
10. International Grant Evaluator, Austrian Research Promotion Agency (FFG), Austria, since 2015.
11. International Grant Evaluator, Deanship of Scientific Research (DSR) Umm Al-Qura University (UQU), Makkah, Saudi Arabia, since 2017.
12. UMP Journal Editorial Expert and Consultant, since 2013.
13. International Grant Evaluator, National Science Foundation, since 2015.
14. National Grant Evaluator, UMP and FKM Research Proposal (Grant) Evaluator, since 2007.
15. CIDB Construction Trainer/Lecturer Accredited Level: LLT4 – Construction Industry Development Board, Malaysia Green Card, (CIDB No. C81230320090064), since 2009.
16. Lead Trainer (UMP), Engineering Accreditation Counsel (EAC), since 2008.
17. Expert Panel for Faculty of Manufacturing Engineering, Setup New Faculty, Oct. 2007.
18. Expert Panel for Faculty Science and Technology Industry, Setup New Program, Jan 2009.
19. Judge / Panel Evaluator for Fac. of Mechanical Engineering SolidWork Competition, Mar 2009.
20. Panel Interviewer for JPA Overseas Degree Programme, (PILN) 2009 & 2010.
21. Panel Judge for International Invention, Innovation and Technology Exhibition (ITEX), 2009.
22. Panel Evaluator/Supervisor for new lecturer's instructional practice, 2009 - 2010.
23. Lead Judge for UMP Undergraduate Research Competition, 2009.

24. Lead Judge, Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning, (PECIPTA), 2009.
25. Panel Chair and Member, UMP PhD Proposal Defence and Viva, 2009 - 2010.
26. Malaysian Qualification Agency (MQA) Panel Auditor for Engineering, 2009 – to date.
27. Standing Committee, MySET Admission, Accreditation, Examination & Certification (MySET EAEC), since 2009.
28. Panel Member, UMP Pre-PPSM Interview, 2010.
29. Lead Judge for Research & Innovation Competition, 1-3 Oct, 5<sup>th</sup> UMP Convocation Expo, 2010.
30. Facilitator, SMSS5203 and SMSS5204 Six Sigma, Faculty of Science and Technology, Open University Malaysia (OUM), since 2014.
31. Judge, International Engineering Invention & Innovation Exhibition (i-ENVEX) 2015, 17-19 Apr, Dewan Ilmu, UniMAP, Perlis, 2015.
32. Judge, International Invention, Innovation and Design (IIID) Johor 2015, Amansari Residence Resort, Malaysia, 29 Oct 2015, UiTM Segamat, Johor.
33. Internal Quality Auditor, Kementerian Sains, Teknologi & Inovasi (MOSTI), 26 Nov, 2015, Kuala Lumpur, Malaysia
34. Panel member, Graduate Research Scheme (GRS) Interview, 11 Nov 2015, Pekan, Pahang, Malaysia.
35. New EAC Panel Evaluators, 14-16 December 2015, Engineering Accreditation Council (EAC), Board of Engineers Malaysia (BEM), Hotel Grand Dorsett, Subang, Selangor.
36. Panel Member, UMP Research Grant, UMP JKPP, Pekan, Pahang, 2016.
37. Director, FKM Engineering Accreditation Counsel (EAC) Committee, 2016.
38. Panel Judge, IEM-METD Design Student Award 2016, 05 Apr, Mechanical Engineering Technical Division (METD), The Institution of Engineers, Malaysia (IEM), Petaling Jaya, 2016.
39. Judge, International Engineering Invention & Innovation Exhibition (i-ENVEX) 2016, 8 - 10 Apr, Dewan Ilmu, UniMAP, Perlis, 2016.
40. Subject Matter Expert (Pakar Rujuk), Science and Technical Research Methodology, Faculty of Science and Technology, Open University Malaysia (OUM), Malaysia, since 2016.
41. Module Moderator, EBLS4103 Lean Six Sigma, Centre for Instructional Design & Technology, Faculty of Science and Technology, Open University Malaysia (OUM), 2016.
42. Invited Invention Jury, Breakthrough Invention, Innovation and Design Exhibition (BIIDE) 2016 7-8 Nov, Universiti Teknologi Mara, Jengka, Pahang Malaysia.
43. Invited Invention Judge, International Research Conference and Innovation Exhibition (IRCIE) 2016, 18-20 Oct, Persada Johor International Convention Center, Johor Bahru, Johor.
44. Judge, International Invention, Innovation and Design, Johor (IIID) 2017, Amansari Residence Resort, Malaysia, 9 March 2017, UiTM Segamat, Johor.
45. Invention Jury, International Competition on Oil Palm Mechanisation (ICOPM) 2017, Malaysian Palm Oil Board (MPOB), 6 & 14 July and 25 & 30 October, Bandar Baru Bangi, Selangor, Malaysia.
46. Team Leader (Openness Strategy), UMP Retreat Webometrics, TH Hotel, 3-5 Nov 2017, Kuala Terengganu, Malaysia.
47. Invention Judge, UMP TVET Exposition 2017, Sport Complex, Universiti Malaysia Pahang, Gambang Campus, 19-20 September, Kuantan, Pahang, Malaysia.
48. Invention Judge, Creation, Innovation, Technology & Research Exposition (CITREX) 2018, 7-8 Feb, Conference Main Hall, UMP, Malaysia.
49. Invention Judge, International Festival of Innovation on Green Technology (i-FINOG) 2018, 20-22 April, Sport Complex, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
50. Judge, Digital International Invention, Innovation and Design, Johor (IIID) 2018, 19 April – 23 July 2018, UiTM Segamat, Johor.

51. Team Leader (Openness Strategy), UMP Retreat Webometrics, Resort World Hotel, 2-4 Nov 2018, Kijal, Terengganu, Malaysia.
52. Invention Judge, Creation, Innovation, Technology & Research Exposition (CITREX) 2018, 12~13 Feb, Conference Main Hall, UMP, Malaysia.
53. Invention Judge, Malaysia Technology Expo (MTE) 2019, 21 – 23 February, Putra World Trade Centre, Kuala Lumpur, Malaysia.
54. Invention Jury, International Innovation, Creativity, Technology Exhibition (I2Create) 2019, 12-14 April, Hotel Seri Pacific Kuala Lumpur, Malaysia.
55. Invention Jury, International Festival of Innovation of Green Technology (i-FINOG) 2019, 19-21 April, Sport Complex, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
56. Invention Jury, Innovation and Creativity Exhibition (InnoCrEx) 2019, 12-14 Jun 2019, Dewan Ibnu Khaldun, Kolej Kemahiran Tinggi MARA (KKTm) Kuantan, Malaysia.
57. Invention Jury, 2nd Digitalised International Invention, Innovation & Design (DIID) 2019, 19 – 31 July, Universiti Teknologi MARA (UiTM) Johor, Malaysia.

### Keynote Speaker / Guest Speaker / Invited Speaker

1. Invited Keynote Speaker, International Research Conference and Innovation Exhibition (IRCIE) 2016, 18-20 Oct, Persada Johor International Convention Center, Johor Bahru, Johor.
2. Invited Speaker & Facilitator, Malaysian Technical University Network (MTUN) Journal Evaluation, Journal of Engineering and Technology (JET) for Scopus Indexed Evaluation and Review, 12 Aug, Universiti Teknikal Malaysia Melaka, 2016.
3. Invited Keynote Speaker, International Conferences of Advance Functional Material (ICAFM) 2017, 3-5 May, Dept. of Mechanical Engineering, Adhi College of Engineering and Technology, India.
4. Invited Speaker, PROTON Engine Workshop 2017, 13 July, UMP Engine Experimental and Development, Proton Shah Alam, Selangor, Malaysia.
5. Invited Speaker, 2<sup>nd</sup> PROTON Engine Workshop 2017, 27 Oct, HCCI Engine Development, Proton Shah Alam, Selangor, Malaysia.
6. Invited Speaker, Professional Trainer (Nara Sumber), Training of Scientific Writing, Projek 7 in 1, Universitas Syiah Kuala (UNSYIAH), 9-10 Oct 2017, Darussalam-Banda Aceh, Indonesia.
7. Public Lecture (Kuliam Umum), Learn About Developing News in Engineering Based on Knowledge and Future as An Opportunity Industrial Revolution 4.0, Updates and Challenges, Universitas Abulyatama (UNAYA), 11 Oct 2017, Banda Aceh, Indonesia.
8. Invited Speaker, Professional Trainer (Nara Sumber), Training of Writing Technique for International Indexed Journal, Universitas PGRI Ronggolawe Tuban (UNIROW), 20-21 Dec 2017, Surabaya, Indonesia.
9. Public Lecture (Kuliah Umum), Published in Scopus Journal & Learn About Developing News in Engineering Based on Knowledge and Future as An Opportunity Industrial Revolution 4.0, Updates and Challenges, Universitas Muhammadiyah Gresik (UMG), 22 Dec 2017, Surabaya, Indonesia.
10. Invited Speaker and Lead Trainer, Journal Management Workshop Towards Indexing of Scopus and WoS (ISI) Index, 18-19 Jan 2018, Tun Fatimah Seminar Room, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
11. Invited Speaker, Challenges of Effective Management in Industrial Revolution 4.0, UMP Advanced Industrial Seminar, 17 Mar 2018, Tun Teja Seminar Room, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
12. Keynote Speaker, Dual Award Degree, Malaysian-Germany Degree and German Degree in Malaysia, an Opportunity, Malaysian German Society Seminar at MGS Open Day, 24 Mar 2018, George Town, Penang, Malaysia.

13. Invited Lecture (Kuliah Tamu), Challenge and Current Development of Industrial Revolution 4.0, Universitas Syiah Kuala (UNSYIAH), 11 April 2018, Banda Aceh, Indonesia.
14. Invited Speaker, Professional Trainer (Nara Sumber), How to Get Your Paper Published in A Distinguish Journal, Universitas Syiah Kuala (UNSYIAH), 11 April 2018, Banda Aceh, Indonesia.
15. Invited Lecture, Mahasiawa Bijak Elak Plagiat, UMP FIST SCITEXS, 17 Apr 2018, Bilik Seminar Block WDK300, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
16. Invited Speaker, Professional Trainer (Nara Sumber), Training of Writing Technique for International Indexed Journal, Universitas Syiah Kuala (UNSYIAH), 14 May 2018, Banda Aceh, Indonesia.
17. Invited Lecture (Kuliah Tamu), Challenge and Current Development of Industrial Revolution 4.0, Universitas Samudra (UNSAM), 3 July 2018, Aceh Besar, Indonesia.
18. Invited Speaker, Professional Trainer (Nara Sumber), Bimbingan Penulisan dan Pengurusan untuk Scopus & WoS (ISI) Indexed Journal, Universitas Syiah Kuala (UNSYIAH), 02 July 2018, Banda Aceh, Indonesia.
19. Invited Speaker, How to Manage Scopus & WoS Journal and How to Get Your Paper Published in A Distinguish Journal, Universitas Samudra (UNSAM), 3 July 2018, Aceh Besar, Indonesia.
20. Invited Speaker, Professional Trainer (Nara Sumber), Bimbingan Penulisan dan Pengurusan untuk Scopus & WoS Indexed Journal, Centre for Modern Languages & Human Sciences, 06 July 2018, Malaysia
21. Invited Speaker, Challenges in Industrial Revolution 4.0, International Youth Motivator Seminar, 22 Sep 2018, Tun Fatimah Seminar Room, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
22. Invited Speaker and Lead Trainer, Journal Management Workshop Towards Indexing of Scopus and WoS (ISI) Index, 05 Dec 2018, Zenith Hotel, Kuantan, Pahang, Malaysia.

## Editorial Board / Guest Editors / Technical Editors / Reviewers

### **A) Journal and Proceedings Editorial Board & Guest Editor**

1. International Journal of Automotive & Mechanical Engineering (IJAME), (Founder & Editor in Chief), Malaysia, 2008 - 2021.
2. Journal of Mechanical Engineering & Sciences (JMES), (Editor in Chief & Advisor), 2014.-2021.
3. Pollution, Iran.
4. Journal of Applied Sciences (JAS).
5. Journal of Pollution.
6. Journal of Engineering and Science (JES), SVSCE, India.
7. International Journal of Applied Mathematics and Informatics, UK.
8. International Journal of Vehicle Structures & Systems, India.
9. Trends in Applied Sciences Research (TASR).
10. American Journal of Scientific and Industrial Research (AJSIR).
11. WSEAS Transactions on Systems, UK.
12. International Journal of Engineering and Technologies (IJET), Switzerland.
13. Engineering Letters, International Association of Engineers, HK.
14. International Journal of Engineering Technology and Scientific Innovation.
15. Journal of Advanced Research in Automotive Technology and Transportation System.
16. International Journals of Engineering & Sciences (IJENS).
17. International Journal of Engineering, Science and Technology (IJEST).
18. International Journal of Energy and Thermal Fluid (IJETF).
19. Research Journal of Science and Engineering Systems (RJSCSE).

20. International Journal of Modern Studies in Mechanical Engineering (IJMSME).
21. International Journal Series in Multidisciplinary Research (IJSMR).
22. International Journal of Agriculture and Environmental Research (IJAER).
23. Int. Journal of Eng. Technology and Scientific Innovation (IJETSI), India
24. Jurnal Manajemen dan Teknik Industri – Produksi, MATRIX, UMG, Indonesia.
25. 1<sup>st</sup> National Conference of Postgraduate Research (NCON-PGR) 2009, Malaysia.
26. 1<sup>st</sup> National Conf. in Mechanical Eng. for Research & PG Studies, (NCMER) 2010, Malaysia.
27. 2<sup>nd</sup> Malaysian Postgraduate Conference (MPC) 2012, Australia.
28. 3<sup>rd</sup> Malaysian Postgraduate Conference (MPC) 2013, Australia.
29. UTP-UMP Symposium on Energy Systems (SES) 2015, Malaysia.
30. Guest Editor, 2<sup>nd</sup> International Conference on Automotive Innovation and Green Energy Vehicle (AiGEV) 2016, Malaysia.
31. Guest Editor, International Conference on Nano-Materials, Function and Composite Materials (ICNFCM) 2017, Hong Kong.
32. Guest Editor, IOP: Materials Science and Engineering (Vol: 225), International Conference on Materials, Alloys, and Experimental Mechanics (ICMAEM) 2017, NR College of Engineering, Andhrapradesh, 7-8 Mar, India.
33. Invited Guest Editor, ASM Science Journal, Academy of Sciences Malaysia, 2018, Malaysia.

## **B) Technical Editor and Journal / Paper Reviewer**

1. International Journal of Hydrogen Energy, (IJHE), Elsevier.
2. Applied Energy (APEN), Elsevier.
3. Renewable & Sustainable Energy Reviews (RSER), Elsevier.
4. Fuel Processing Technology (FUPROC), Elsevier.
5. Journal of Combustion, Hindawi.
6. Engineering Science and Technology, an International Journal (JESTCH), Elsevier.
7. Journal of Material and Design (JMAD), Elsevier.
8. Journal of Scanning Microscopies (SCANNING), Wiley.
9. Journal of Nanostructure in Chemistry (JNSC), Springer.
10. International Journal of Exergy (IJEX), Inderscience.
11. Society of Automotive Engineers (SAE) 2011 World Congress & Exhibition, SAE International.
12. Institute of Engineers, Malaysia. (IEM) Journal, Malaysia.
13. Journal of Zhejiang University-Science A (JZUSA), Springer.
14. Jurnal Teknologi, UTM, Malaysia.
15. Journal of Science and Technology, UPM, Malaysia.
16. International Journal of Engineering (IJE) Transactions.
17. IEEE Access (Institute for Electrical and Electronics Engineers).
18. International Journal of Advanced Manufacturing Technology (IJAMT), Springer.
19. Journal of Engineering Science and Technology (JESTEC), Taylor's University.
20. International Journal of Petrochemistry and Research (IJPR), US.
21. Materials Research Innovations (MRI).
22. Journal of Technical Gazette, Uni of Osijek, Croatia.
23. Journal of Chemical Engineering and Materials Science (JCEMS).
24. Journal of Modern Applied Science (JMAS).

25. IEEE Transactions on Neural Networks.
26. Journal of Science & Technology (JST): Pertanika UPM, Malaysia.
27. Polish Journal of Chemical Technology (PJChT), Poland.
28. WSEAS Transactions on Mathematics.
29. British Journal of Applied Science & Technology.
30. Applied Mechanics and Materials (AMM).
31. WSEAS Transactions on Circuits and Systems Journal.
32. International Journal: Materials Science Forum, (MSF).
33. Scientific Research and Essay (SRE), Academic Journals.
34. Defense S&T Technical Bulletin, Stride, Malaysia.
35. Asian Journal of Mathematics and Computer Research.
36. International Journal of Engineering and Technology, (IJET).
37. Journal of Advanced Review on Scientific Research (ARAM).
38. International Journal of Engineering (IJE).
39. Journal of Advanced Research in Fluid Mechanics & Thermal Sciences (ARFMTS).
40. International Journal of Environmental Protection (IJEP).
41. International Journal of Plant & Soil Science (IJPSS).
42. African Journal of Biotechnology, (AJB), Academic Journals.
43. Jordan Journal of Mechanical & Industrial Engineering (JJMIE) Jordan.
44. World Scientific and Engineering Academy and Society, (WSEAS) Wisconsin, USA.
45. International Journal of Engineering Education, (IJEE) Ireland.
46. International Review of Mechanical Engineering, (IREME).
47. International Journal of Vehicle Structures & Systems (IJVSS), India.
48. World Academy of Science, Engineering and Technology, (WASET).
49. African Journal of Food Science, (AJFS) Academic Journals, Africa.
50. International Journal of Recent Trends in Engineering (IJRTE), Finland.
51. British Journal of Mathematics and Computer Science (BJMCS), UK.
52. WSEAS Transactions on Systems and Control Journal.
53. Computational Thermal Sciences, India.
54. WSEAS Transactions on Fluid Mechanics Journal.
55. Journal of Engineering & Materials Sciences (EMS).
56. WSEAS Transactions on Systems Journal.
57. WSEAS Transactions on Heat and Mass Transfer Journal.
58. Panel of Journal Reviewer for Mechanical Engineering Faculty, UMP.
59. International Conf. on University Learning & Teaching (InCULT2008), 20-21Oct, UiTM Shah Alam.
60. Asia Pacific Defense & Security Technology Conference (DSTC 2009), UPM, 6-7 Oct, KL.
61. International Conference on Software Engineering and Computer Systems (ICSECS2009), 19-21Oct, Swiss Garden Resort & Spa, Kuantan, Pahang, Malaysia.
62. International Conference on Advances in Recent Technologies in Communication and Computing, (ARTCom 2009), 27-28 Oct, IEEE-Computational Intelligence Society, India
63. International Conference on Advance Material Processing Technology (AMPT2009), 26-29 Oct, Legend Hotel, Kuala Lumpur, Malaysia.
64. The World Congress on Engineering (WCE2010), 30 June - 2 July, London, U.K.



65. The International Multi-Conference of Engineers and Computer Scientists (IMECS2010), 17-19 March, Hong Kong.
66. The World Congress on Engineering & Computer Science (WCECS2010), 20-22 Oct, San Francisco, USA.
67. The 4<sup>th</sup> World Engineering Congress 2010 (WEC2010), Conference on Aerospace and Mechanical Engineering, 2-5 August, Kuching, Serawak, Malaysia.
68. The 2<sup>nd</sup> International Conference on Plant Equipment and Reliability (ICPER 2010), 15-17 Jun, Kuala Lumpur Convention Center, Malaysia. 2010.
69. The 2010 International Conference on Informatics, Cybernetics, and Computer Applications (ICICCA2010), 19-21 Jul, Jain University, Bangalore, India, 2010.
70. International Conference on Digital Content, Multimedia Technology and its Applications (IDC2010), 16-18 Aug, Soul Korea, 2010.
71. The 3<sup>rd</sup> International Conference on Information Sciences and Interaction Sciences (ICIS 2010), 23-25 June, Chengdu, China, 2010.
72. The 7<sup>th</sup> International Conference on Cooperative Design, Visualization and Engineering (CDVE2010), 19-22 Sep, Mallorca, Spain.
73. 6<sup>th</sup> International Conference on Networked Computing & Advanced Information Management (NCM2010), 16-18 Aug, Soul Korea.
74. The 4<sup>th</sup> World Engineering Congress 2010 (WEC2010), Conference on Engineering and Technology Education, 2-5 Aug, Kuching, Sarawak, Malaysia.
75. The Fifth International Conference on Computer Sciences and Convergence Information Technology, ICCIT2010, 20Nov-2 Dec, Seoul, Korea.
76. 2<sup>nd</sup> International Conference on Software Engineering and Computer Systems (ICSECS 2011), 27-29Jun, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia.
77. The International Conference on Advanced Science, Engineering & Information Technology (ICASEIT2011), 14-15 Jan 2011, Universiti Kebangsaan Malaysia.
78. 2<sup>nd</sup> International Conference on Next Generation Information Technology (ICNIT 2011), 21-23 Jun, 2011, Gyeongju, Korea.
79. 2<sup>nd</sup> International Conference on Advanced Science, Engineering & Information Technology (ICASEIT2011), 12-13 Dec 2011, Universiti Kebangsaan Malaysia.
80. 14<sup>th</sup> WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS2012), July 1-3, Porto, Portugal.
81. International Conference on Mathematical Models for Engineering Science (MMES2012) Conference, December 2-4, Paris, France.
82. International Conference on Agricultural, Food and Biological Engineering (ICAFBE 2012), 11-13 May, Guangzhou, China.
83. 10<sup>th</sup> IASME/WSEAS International Conference on Fluid Mechanics & Aerodynamics (FMA 2012), 21-23 Aug, Istanbul, Turkey.
84. 6<sup>th</sup> International Conference on Renewable Energy Sources (RES 2012), 1-3 Jul, Porto, Portugal.
85. International Conference on Statistical in Science, Business and Engineering (ICSSBE2012), 10-12 Sep, Langkawi, Kedah, Malaysia.
86. 14<sup>th</sup> WSEAS International Conference on Mathematical and Computational Methods in Science and Engineering (MACMESE2012), 7-9 Sep, Malta
87. 3<sup>rd</sup> International Conference on Engineering Industry (ICEI) 2012, 3-5 Dec, Seoul, Korea.
88. 10<sup>th</sup> International Conference on Mathematical Biology and Ecology (MABE2013), 9-11 Jan, Milan, Italy.
89. 12<sup>th</sup> International Conference on Applications of Electrical Engineering (AEE2013), 30Jan – 1Feb, Cambridge, MA, USA.

90. International Conference on Applied Energy (ICAE2013), 1-4 Jul, Pretoria, South Africa.
91. 2<sup>nd</sup> International Conference of Mechanical Engineering Research (ICMER2013), 1-3 July, Kuantan, Pahang.
92. International Conference on Advanced Material Engineering & Technology (ICAMET2013), 28-29 Nov, Bandung, Indonesia.
93. 1st WSEAS International Conference on Industrial and Manufacturing Technologies (INMAT2013), 14-16 May, Vouliagmeni, Athens, Greece, May
94. 1<sup>st</sup> International Conference on Computational Science and Engineering (CSE2013), August 6-8, Valencia, Spain
95. 6<sup>th</sup> International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS 2013), 1-3 Jun, Brasov, Romania.
96. International Conference on Circuits, Systems, Communications, Computers and Applications (CSCCA2013), 25-27 Jun, Dubrovnik, Croatia.
97. 15<sup>th</sup> International Conference on Automatic Control, Modeling & Simulation (ACMOS2013), 1-3 Jun, Brasov, Romania.
98. 14<sup>th</sup> International Conference on Automation & Information (ICAI2013), 6-8 Aug, Valencia, Spain.
99. IEEE Symposium on Business, Engineering & Industrial Applications (ISBEIA2013), 22-25 Sep, Kuching, Malaysia
100. 2<sup>nd</sup> International Conferences on Engineering Technology (ICET2013), 12-13 Dec, Bali, Indonesia,
101. International Conf. on Applied Mathematics (AMATH2013), 10-12 Dec, Budapest, Hungary.
102. 2<sup>nd</sup> International Conference on Recent Advances in Automotive Engineering & Mobility Research (ReCAR2013), 16-18 Dec, Kuala Lumpur, Malaysia.
103. 7<sup>th</sup> Finite Differences, Finite Elements, Finite Volumes, Boundary Elements Conference (F-and-B 2014), 15-17 May, Gdansk, Poland.
104. 14<sup>th</sup> Robotics, Control and Manufacturing Technology Conference (ROCOM) 2014, 23-25 April, Kuala Lumpur, Malaysia.
105. Applied Mathematics and Informatics Conference (AMATH) 2014, 29-31 Jan, Cambridge, MA, USA.
106. Malaysian Technical Universities Conference on Engineering & Technology (MUCET) 2014, 10-11 Nov 2014, Melaka, Malaysia.
107. 1<sup>st</sup> International Conference on Automotive Innovation and Green Energy Vehicle (AiGEV) 2014, 26-27 Aug, Kuantan, Pahang, Malaysia.
108. Mathematical and Computational Methods in Science and Engineering Conference (MACMESE) 2014, 23-25 April, Kuala Lumpur, Malaysia.
109. International Conference on Materials Science (ICMS) 2015, 29-31 Mar, Shanghai, China.
110. Recent Advances in Fluid Mechanics and Thermal Engineering, 27-29 Jun, Salerno, Italy.
111. Game Physics and Mechanics International Conference (GAMEPEC) 2015, 25-27 Aug, Langkawi, Malaysia.
112. 10<sup>th</sup> International Conference on Electrical Engineering (ICEENG) 2016, 19-21 April, M.T.C., Cairo, Egypt.
113. 9<sup>th</sup> Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2015 11-13 Oct, KSL Resort Hotel, Johor Baharu, Johor, Malaysia.
114. Recent Researches in Mechanical and Transportation Systems, 27-29 Jun, 2015, Salerno, Italy.
115. 3<sup>rd</sup> International Conference on Recent Advances in Automotive Engineering & Mobility Research (ReCAR) 2015, Dec 1-3, Melaka UNESCO Heritage City, Malaysia.
116. 18<sup>th</sup> International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS2016), 29-31 Jan, Venice, Italy.

117. 18th International Conference on Mathematical and Computational Methods in Science and Engineering (MACMESE2016), 18-20 March, Prague, Czech Republic.
118. 8<sup>th</sup> Knowledge Management International Conference (KMICe) 2016, 29-30 Aug, Chiang Mai, Thailand.
119. 3<sup>rd</sup> International Conference of Defense & Security Technology (DSTC) 2016, 15-17 Aug 2016, Marriot Hotel, Putrajaya, Malaysia.
120. International Conference on Energy and Combustion (ICEC), 2016, 24-25 November, Kings Green Hotel, Melaka, Malaysia.
121. Innovative Design and Manufacturing Engineering Conference (IDMEC) 2016, Hotel Bangi-Putrajaya, 15 - 16 December, UniKL IPROM, Malaysia.
122. Malaysian Technical Universities Conference on Engineering & Technology (MUCET), 2017, 6-7 Dec, Park Royal Hotel, Batu Feringghi, Penang, Malaysia.
123. Conference of Green Technology & Sustainable Development (GTSD) 2018, 24 Oct, Best Western Hotel, Shah Alam, Malaysia.
124. International Postgraduate Conference on Mechanical Engineering (IPCME) 2018, 31 October, Faculty of Mechanical Engineering (UMP), Pekan, Malaysia.
125. International Conference on Sciences, Technology and Social Sciences (ICSTSS) 2018, 3-4 Nov, Universiti Teknologi MARA (Pahang), Vistana Bukit Jambul, Penang Malaysia.
126. 4<sup>th</sup> International Conference on Engineering Technology (ICET) 2019, Kolej Universiti Terengganu Advanced Technical Institute (KUTATI), 6 – 7 July, Darul Iman Training Centre (DITC) Kemaman, Terengganu, Malaysia.
127. Mechanical Engineering Research Day (MERD) 2019, 31 July, UTEM Technology Campus, Melaka, Malaysia.

### **C) Conference & Others Professional Experience.**

1. Session Chairperson & Reviewer, International Conference on Advance Material Processing Technology (AMPT2008), 2-5 Nov, Gulf International Convention Center, Manama, Bahrain.
2. Session Chairperson, 2<sup>nd</sup> Regional Engineering Conference on Sustainable Engineering Infrastructures Development & Management (ENCON) 2008, 18-19 Dec, Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia.
3. Session Chairperson, Reviewer & Exhibitor, Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET) 2009, 20-22Jun, Ms Garden, Kuantan, Pahang, Malaysia.
4. Conference Chairman – Organizing Committee and Session Chairperson, National Conference of Postgraduate Research (NCON-PGR) 2009, 01 Oct, UMP.
5. Technical Committee, Reviewer & Panel Expert, UMP/USM Postgraduate Research Colloquium/Conference (PGRC) 2009, Dec 2009, UMP.
6. Committee Member, International Conference on Networked Computing (INC2010), Korea.
7. Conference Co-Chairman, National Conference in Mechanical Engineering for Research & Postgraduate Studies, (NCMER) 2010, 31May-1Jun, UMP.
8. Technical Committee, 4<sup>th</sup> World Engineering Congress (WEC2010), Conference on Aerospace and Mechanical Engineering (CAME) 2010, 2-5 Aug, Kuching, Sarawak, Malaysia.
9. International Program Committee, The Third International Conference on the Applications of Digital Information and Web Technologies (ICADIWT) 2010, 12-14 Jul, Fatih University, Istanbul, Turkey.
10. Committee Member, 4<sup>th</sup> International Conference on New Trends in Information Science and Service Science (NISS) 2010, 11-13 May, Gyeongju, Korea.
11. Conference Committee, 6<sup>th</sup> International Conference on Advanced Information Management and Service (IMS) 2010, 30Nov-2Dec, Seoul, Korea.

12. Conference Co-Chairman, 2<sup>nd</sup> National Conference in Mechanical Engineering for Research & Postgraduate Studies, (NCMER) 2010, 3-4 Dec, UMP, Malaysia.
13. National Committee and Reviewer, International Conference on Advanced Manufacturing (ICAM) 2011, TATI University College, 23-24 May, Malaysia.
14. Program Committee and Reviewer. 7<sup>th</sup> International Conference on Digital Content, Multimedia Technology and its Applications (IDCTA2011), 16-18 Aug, Busan, Korea.
15. Program Committee and Reviewer, 2<sup>nd</sup> International Conference on Advancements in Computing Technology (ICACT2011), 29Nov-1Dec, Jeju Island, Korea.
16. Program Committee and Reviewer, 7<sup>th</sup> International Conference on Networked Computing & Advanced Information Management (NCM2011), 21-23 Jun, Gyeongju, Korea.
17. Program Committee and Reviewer, 2<sup>nd</sup> International Conference on Engineering & Industries (ICEI2011), 29Nov-1Dec, Jeju Island, Korea.
18. Program Committee and Reviewer, 3<sup>rd</sup> International Conference on Data Mining and Intelligent Information Technology Applications (ICMIA2011), 24 – 26 Oct, Venetian, Macau, Hong Kong.
19. Program Committee and Reviewer, 4<sup>th</sup> International Conference on Information Sciences and Interaction Sciences (ICIS2010), 23-25 June, Chengdu, China.
20. Program Committee and Reviewer, 6<sup>th</sup> International Conference on Computer Sciences and Convergence Information Technology, (ICCIT2011), 29Nov-1Dec, Jeju Island, Korea.
21. Program Committee and Reviewer, 8<sup>th</sup> International Conference on Computing and Network Technology (ICCNT2012), 27-28, Aug, Gyeongju, Korea.
22. Scientific Committee, 5<sup>th</sup> WSEAS International Conference on Finite Differences - Finite Elements - Finite Volumes - Boundary Elements (F-and-B2012), 24-26 Sep, Prague, Czech Republic.
23. Scientific Committee, 8<sup>th</sup> WSEAS International Conference on Applied and Theoretical Mechanics (MECHANICS2012), 29-31 Dec, Montreux, Switzerland.
24. Program Committee and Reviewer, 7<sup>th</sup> International Conference on Computer Sciences and Convergence Information Technology, (ICCIT2012), 3-5 Dec, Seoul, Korea.
25. Program Committee and Reviewer, 8<sup>th</sup> ICIDT: 2012 International Conference on Information Science and Digital Content Technology (5<sup>th</sup> ICIS and 8<sup>th</sup> IDCTA), ICIDT2012, 26 – 28 Jun, Jeju Island, Korea.
26. Program Committee and Reviewer, 8<sup>th</sup> International Conference on Computing Technology and Information Management (NCM and ICNIT), ICCM2012, April 24 - 26, 2012, Seoul, Korea.
27. Scientific Committee, 3<sup>rd</sup> European Conference of Mechanical Engineering (EMCE2012), 2-4 Dec, Paris, France.
28. Program Committee and Reviewer, 17<sup>th</sup> ISSDM: 2012 International Conference on New Trends in Information Science, Service Science and Data Mining (6<sup>th</sup> NISS, 4<sup>th</sup>), ISSDM2012: Oct. 23-25, 2012. Taipei, Taiwan
29. Program Committee and Reviewer, 8<sup>th</sup> ICIPT2012, International Conference on Information Processing, Management and Intelligent Information Technology (8<sup>th</sup> ICIPM and 2<sup>nd</sup> ICIP), ICIPT2012, September 18-20, 2012. Kyoto, Japan.
30. Scientific Committee, 3<sup>rd</sup> European Conference of Systems (ECS2012), 2-4 Dec, Paris, France.
31. Scientific Committee, 3<sup>rd</sup> International Conference on Automotive and Transportation Systems (ICAT2012), 29-31 Dec, Montreux, Switzerland.
32. Program Committee and Reviewer, International Conference on Advanced Material Engineering & Technology (ICAMET) 2012, 28-30Nov, Penang Malaysia.
33. Scientific Committee, 16<sup>th</sup> International Conference on Systems (CSCC) 2012, 14-16 July, Kos Island, Greece.
34. Program Committee and Reviewer, 17<sup>th</sup> North-East Asia Symposium on Nano, Information Technology and Reliability (NASNIT) 2012, 23-25 Oct., Taipei, Taiwan.

35. Scientific Committee and Reviewer, 19<sup>th</sup> WSEAS American Conference on Applied Mathematics (AMERICAN-MATH) 2013, 30 Jan – 01 Feb, Cambridge, Massachusetts, USA.
36. Scientific Committee Member, 1<sup>st</sup> WSEAS International Conference on Numerical Analysis, Algebra and Computational Mathematics (NAAC) 2013, 25-27 Jun, Dubrovnik, Croatia.
37. Technical Committee, International Conference on Advanced Materials Research (ICAMR) 2013, 19-20 Jan, Dubai, United Arab Emirate.
38. Scientific Committee, 1<sup>st</sup> International Conference on Probability and Statistics (PROS) 2013, 14-16 May, Vouliagmeni, Athens, Greece.
39. Scientific Committee, 4<sup>th</sup> International Conf. on Theoretical and Applied Mechanics (TAM) 2013, 30 Jan - 1 Feb, Cambridge, MA, USA
40. Program Scientific Committee, International Conference on Heat Transfer, Thermal Engineering and Environment (HTE) 2013, 14-16 May, Vouliagmeni, Athens, Greece.
41. Scientific Committee and Reviewer, 1<sup>st</sup> International Conference on Mathematical, Computational and Statistical Sciences (MCSS) 2013, 30 Jan – 01 Feb, Cambridge, Massachusetts, USA.
42. Scientific Committee, 10<sup>th</sup> International Conference on Fluid Mechanics (FLUID) 2013, 9-11 Jan, Milan, Italy.
43. Scientific Committee, 7<sup>th</sup> International Conference on Applied Mathematics, Simulation, Modeling (ASM) 2013, 30 Jan - 1 Feb, Cambridge, MA, USA.
44. Scientific Committee, 7<sup>th</sup> International Conference on Computer Engineering and Applications (CEA) 2013, 9-11 Jan, Milan, Italy.
45. Program Scientific Committee, 11<sup>th</sup> Int. Conf. on Fluid Mech. & Aerodynamics (FMA) 2013, 14-16 May, Vouliagmeni, Athens, Greece.
46. Scientific Committee, 10<sup>th</sup> International Conference on Heat and Mass Transfer (HMT) 2013, 9-11 Jan, Milan, Italy.
47. Program Committee, 1<sup>st</sup> International Conference on Mechanical and Robotics Engineering (MREN) 2013, 14-16 May, Vouliagmeni, Athens, Greece.
48. Technical Committee Chair and Reviewer, 2<sup>nd</sup> Malaysian Postgraduate Conference (MPC) 2012, 7-9 Jul, Bond University, Gold Coast, Queensland, Australia
49. Scientific Committee, 12<sup>th</sup> WSEAS International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC) 2013, 16-18 March, Lemesos, Cyprus.
50. Program Scientific Committee and Reviewer, 2<sup>nd</sup> International Conference on Applied and Computational Mathematics (ICACM2013), May 14-16, Vouliagmeni, Athens, Greece.
51. Scientific Committee, 12<sup>th</sup> WSEAS International Conference on System Science and Simulation in Engineering (ICOSSE) 2013, 23-25 April, Morioka City, Iwate, Japan
52. Scientific Committee, 4<sup>th</sup> International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT) 2013, June 25-27, 2013 Dubrovnik, Croatia.
53. Program Scientific Committee, 6<sup>th</sup> WSEAS International Conference on Finite Differences - Finite Elements - Finite Volumes - Boundary Elements (F-and-B) 2013, May 14-16, Vouliagmeni, Athens, Greece.
54. Reviewer and Advisory Committee, 3<sup>rd</sup> International Malaysia-Ireland Joint Symposium on Engineering, Science and Business (IMiEJS) 2013, 11-13 Jun, Athlone Institute of Technology, Ireland
55. Scientific Committee and Reviewer, International Conference on Mechanical and Robotics Engineering (MREN2013), 14-16 May, Vouliagmeni, Athens, Greece.
56. Scientific Committee and Reviewer, 4<sup>th</sup> European Conference of Systems (ECS2013), 29-31 Oct, Paris, France.
57. Scientific Committee and Reviewer, 1<sup>st</sup> International Conference on Computational and Experimental Mechanics (CEM2013), June 25-27, 2013, Dubrovnik, Croatia,

58. Scientific Committee and Reviewer, 4<sup>th</sup> European Conference of Mechanical Engineering (ECME2013), Oct 29-31, 2013, Paris, France.
59. Program committee and Reviewer, 9<sup>th</sup> International Conference on Computing Technology and Information Management (NCM and ICNIT), ICCM 2013, 18-20Jun, Jeju, Korea.
60. Scientific Committee and Reviewer, Int. Conf. on Mathematical Models for Engineering Science (MMES2013) Conference, Jun 1-3, Brasov, Romania.
61. Technical Committee Chair and Reviewer, Malaysian Postgraduate Conference (MPC) 2013, 3-4 July 2013, Malaysia Hall, Sydney, New South Wales, Australia.
62. Scientific Committee and Reviewer, Proceedings of the 5<sup>th</sup> European Conference of Mechanical Engineering (ECME), 2014, 22-24 Nov, Florence, Italy.
63. Committee Member and Reviewer, 2<sup>nd</sup> Intelligent Control, Modeling and Systems Engineering Conference (ICMS) 2014, 29-31 Jan, Cambridge, Massachusetts, USA.
64. Committee Member and Reviewer, 12<sup>th</sup> International Conference on Fluid Mechanics & Aerodynamics (FMA) 2014, 29-31 Dec, Geneva, Switzerland.
65. Scientific Committee and Reviewer, 5<sup>th</sup> International Conference on Applied Mathematics and Informatics (AMATHI) 2014, 29-31 Jan, Cambridge, Massachusetts, USA.
66. Scientific Committee and Reviewer, Proceedings of the 2<sup>nd</sup> International Conference on Computational and Experimental Mechanics (CEM), 2014, 22-24 Nov, Florence, Italy.
67. Scientific Committee and Reviewer, 5<sup>th</sup> International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT) 2014, 30 Oct – 1 Nov, Lisbon, Portugal.
68. Scientific Committee and Reviewer, 5<sup>th</sup> International Conference on Automotive and Transportation Systems (ICAT) 2014, 29-31 Jan, Cambridge, Massachusetts, USA.
69. Committee Member and Reviewer, 12<sup>th</sup> International Conference on Heat Transfer, Thermal Engineering and Environment (HTE) 2014, 29-31 Dec, Geneva, Switzerland.
70. Scientific Committee and Reviewer, 7<sup>th</sup> International Conference on Materials Science (MATERIALS) 2014, 29-31 Jan, Cambridge, Massachusetts, USA.
71. Technical Programme Committee and Reviewer, Progress in Applied Mathematics in Science and Engineering (PIAMSE) 2015, 29 Sept. – 01 Oct., Bali, Indonesia.
72. Scientific Committee, 8<sup>th</sup> International Conference on Applied Mathematics, Simulation, Modeling (ASM) 2014, 22-24 Nov, Florence, Italy.
73. Technical Committee, 5<sup>th</sup> International Conference on Advanced Materials Research (ICAMR) 2015, 7-8 Jan, Doha, Qatar.
74. Leader, Promotion and Website Group and Reviewer, International Conference on Mechanical Engineering Research (ICMER) 2015, 18-19 Aug, Kuantan, Pahang, Malaysia.
75. Technical Programme Committee and Reviewer, International Symposium on Social Sciences, Arts and Humanities (SYSSARM) 2015, 29 Sept. – 01 Oct., Bali, Indonesia.
76. Technical Programme Committee and Reviewer, International Conference on Applied Mechanics and Mechatronics Engineering (AMME) 2015, 28-2 Jun, Bangkok, Thailand.
77. Leader, Best paper selection committee, International Conference on Mechanical Engineering Research (ICMER) 2015, 18-19 Aug, Kuantan, Pahang, Malaysia
78. Program Scientific Committee, 13<sup>th</sup> International Conference on Fluid Mech. & Aerodynamics (FMA) 2015, 27-29 Jun, Salerno, Italy.
79. Technical Committee and Reviewer, 9<sup>th</sup> International Conference on Applied Mathematics, Simulation, Modelling (ASM) 2015, May 20-22, Konya, Turkey.
80. Program Scientific Committee, International Conference on Heat Transfer, Thermal Engineering and Environment (HTE) 2015, 27-29 Jun, Salerno, Italy.
81. Program Technical Committee and Reviewer, UTP-UMP Symposium on Energy Systems (SES) 2015, 7 Oct, Chancellor Complex, Universiti Teknologi Petronas (UTP), Bandar Seri Iskandar, Perak, Malaysia.

82. Program Scientific Committee, 6<sup>th</sup> International Conference on Theoretical and Applied Mechanics (TAM) 2015, 27-29 Jun, Salerno, Italy.
83. Plenary Session Moderator, National Symposium on Additive Manufacturing (NSAM) 2015, 19-20 Aug, M.S. Garden Hotel Kuantan, Pahang, Malaysia.
84. Organizing, Technical Committee and Reviewer, International Conference on Advanced Material Engineering & Technology (ICAMET) 2015, 4-6 Dec, UniMAP and World Invention Intellectual Property Associations (WIIPA), International Convention Center Kaohsiung (ICCK), Taiwan.
85. Scientific Committee, 6<sup>th</sup> International Conference on Automotive and Transportation Systems (ICAT) 2012, 27-29 Jun, Salerno, Italy.
86. Technical Committee and Reviewer, International Conference on Mechanical Engineering and Advanced Materials (ICME-AM) 2015, 3-4 December, Universiti Malaysia Sabah, Kota Kinabalu Sabah, Malaysia.
87. Scientific Committee and Reviewer, 6<sup>th</sup> International Conference on Mechanical and Transportation Engineering (ICMTE) 2015, 23-25 April, Kuala Lumpur, Malaysia.
88. Scientific Committee and Reviewer, 14<sup>th</sup> International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC) 2015, 7-9 Nov, Rome, Italy.
89. Program Technical Committee and Reviewer, International Symposium on Mathematical Sciences (ISyMS) 2015, 24-26 Nov, Bandung, Indonesia.
90. Scientific Committee and Reviewer, 2<sup>nd</sup> International Conference on Aeronautical and Mechanical Engineering (AEME) 2015, 12-14 Dec, Budapest, Hungary.
91. Scientific Committee and Reviewer, 6<sup>th</sup> International Conference on Nanotechnology (NANOTECHNOLOGY) 2015, 7-9 Nov, Rome, Italy.
92. Scientific Committee and Reviewer, 6<sup>th</sup> International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT) 2015, 23-25 April, Kuala Lumpur, Malaysia.
93. International Scientific Committee, 11<sup>th</sup> International Conference on Heat and Mass Transfer (HMT) 2015, 12-14 Dec, Budapest, Hungary.
94. International Advisory Committee and Reviewer, International Conference on Mechanical, Materials and Manufacturing Systems (ICMMMS) 2016, 27-29 Jan 2016, Sri Sairam Engineering College, West Tambaram, Chennai, India.
95. Program Technical Committee and Reviewer, International Conference on Information in Business and Technology Management (I2BM), 2016, 26- 28 Jan, Melaka, Malaysia
96. Program Scientific Committee, International Congress on Technology, Engineering and Science (ICONTES) 2016, 13-14 Feb, Kuala Lumpur, Malaysia.
97. Program Technical Committee and Reviewer, International Conference on Philosophy, Theology and Oriental Studies, (PHILOTIS) 2016, 19<sup>th</sup> – 21<sup>st</sup> April 2016 in Kota Kinabalu, Sabah, Malaysia
98. Program Technical Committee, International Conference on Material, Industrial & Mechanical Engineering (ICMIME) 2016, 13-14 February, Kuala Lumpur, Malaysia.
99. Program Technical Committee and Reviewer, Applied Mathematics in Science and Engineering International Conference (APPEMSE) 2016, 26 – 28 Jan, Melaka, Malaysia
100. Program Technical Committee and Reviewer, International Conference on Business, Economics, Management, Social Sciences, Art and Humanities (BEMSAHIC) 2016, 10-12 May, Ural Federal University, Yekaterinburg, Russia
101. Scientific Committee, International Conference on Chemistry, Chemical & Petrochemical Engineering (ICCCPE) 2016, 13-14 February, Kuala Lumpur, Malaysia
102. Conference Scientific Committee, International Conference on Agricultural Science (ICAS2016), 13-14 Feb, Kuala Lumpur, Malaysia.
103. Scientific and Review Committee / Technical Committee, 7<sup>th</sup> International Scientific conference on Applied Sciences and Engineering, 27-28 Feb, 2016, Flora Grand Hotel, Dubai, United Arab Emirates.

104. Scientific and Review Committee / Technical Committee, 8th International Scientific conference on Applied Sciences and Engineering, 2-3 Apr, 2016, Kuala Lumpur, Malaysia.
105. Conference Scientific Committee, International conference on Nanotechnology, Nanoscience & Advanced Materials (ICNNAM) 2016, 13-14 Feb, Kuala Lumpur, Malaysia.
106. Scientific and Review Committee / Technical Committee, 9th International Scientific conference on Applied Sciences and Engineering, 6-7 Jun 2016, Nippon Hotel, İstanbul-Turkey.
107. Program Committee, 10<sup>th</sup> International Conference on Computing Technology and Information Management (ICCM) 2016, 5-7 July, Seoul, Korea.
108. Scientific Committee and Reviewer, 7th International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT) 2016, 18-20 Mar, Prague, Czech Republic.
109. Scientific and Review Committee / Technical Committee, 10th International Scientific conference on Applied Sciences and Engineering, 27-28 Aug, 2016, Lebua Hotels and Resorts, Thailand.
110. Proceedings Technical Committee Member and Reviewer, 2<sup>nd</sup> International Conference on Automotive Innovation and Green Energy Vehicle (AiGEV) 2016, 1-3 Aug, Malaysian Automotive Institute, Kuala Lumpur, Malaysia.
111. Scientific Committee and Reviewer, 10th International Conference on Applied Mathematics, Simulation, Modeling (ASM) 2016, 15-17 April, Istanbul, Turkey.
112. Program Scientific Committee, International Conference on Advances in Civil, Architecture and Environmental Engineering (ICCAEE) 2016, 13-14 February, Kuala Lumpur, Malaysia.
113. Scientific and Review Committee / Technical Committee, 11th International Scientific conference on Applied Sciences and Engineering, 3-4 Jul, 2016, Kuala Lumpur, Malaysia.
114. Technical Program Committee and Reviewer, International Conference on Innovative Material Science and Technology (IMST) 2016, 19-21 Aug, Shenzhen, China.
115. Conference Scientific Committee, 14th International Conference on Fluid Mechanics & Aerodynamics (FMA2016), 7-9 May, Bali, Indonesia.
116. Technical Committee Member and Reviewer, Advancement on Informatics, Business and Management International Conference (ADIBUM) 2016, 20-22 Sept, University of Hradec Kralove, Czech Republic.
117. Technical Committee Member and Reviewer, Advancement, 2nd Progress in Applied Mathematics in Science and Engineering (PIAMSE) 2016, 20 - 22 Sept, Krabi, Thailand.
118. International Advisory Board and Reviewer, International Conclave on Renewable Energy Systems and Technology (ICREST) 2016, 6-8 Apr, Saveetha School of Engineering, Saveetha University, Thandalam, Chennai, India.
119. Technical Program Committee and Reviewer, The International Conference on Environmental Research and Public Health (ICERP) 2016, 21-23 Oct, Shenzhen, China.
120. Technical Program Committee and Reviewer, Advanced Research in Engineering and Information Technology International Conference (AREITIC) 2016, 31 May – 02 June, Bandung, Indonesia.
121. Technical Program Committee and Reviewer, International Conference on Material, Power and Energy Engineering (MPEE) 2016, 19-21 Aug, Shenzhen, China.
122. Technical Program Committee and Reviewer, Education in Science, Technology and Social Science World Conference (EDUSTS) 2016, 20-22 Sept, Krabi, Thailand.
123. Program Technical Committee and Reviewer, UTP-UMP Symposium on Energy Systems (SES) 2016, 22 Sept, Universiti Malaysia Pahang, Pekan, Malaysia.
124. Expert Panel and Technical Committee, International Engineering Research and Innovation Symposium (IRIS) 2016, 24-25 November, Kings Green Hotel, Melaka, Malaysia.
125. International Scientific Committee, 12<sup>th</sup> International Conference on Heat and Mass Transfer (HMT) 2017, 17-9 Dec, Bern, Switzerland.
126. International Advisory Committee, International Conference on Biofuels and Applications (ICBFA) 2016, 22-24 Dec, KIIT University, Bhubaneswar, Odisha, India.



127. International Program Committee, International Conference on Nano-Materials, Function and Composite Materials (ICNFCM) 2017, 7-8 Jan, Best Western Grand Hotel, Hong Kong, China.
128. Leader, Sponsorship Group and Reviewer, International Conference on Mechanical Engineering Research (ICMER) 2017, 15-17 August, Kuantan, Pahang, Malaysia
129. Technical Committee Member, 2nd International Conference on Green Energy and Applications (ICGEA) 2017, 25-27 March, Singapore.
130. Scientific Committee, 3rd International Conference on Power Generation Systems & Renewable Energy Technologies (PGSRET) 2017, 4-6 Apr, Universiti Teknologi Malaysia, Johor, Malaysia.
131. International Scientific Committee, 27th International Conference on Mechatronics, Electrical and Mechanical Engineering (ICMEME) 2018, 24-25 August, Kuala Lumpur, Malaysia.
132. Technical Committee Member, 8th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT) 2017, 3-6 February, Cape Town, South Africa.
133. Committee Member, International Conference on Advanced Functional Materials (ICAFM) 2017, 3 - 5 May, Chennai, India.
134. Conference Main Committee, International Conference on New Energy Vehicle and Vehicle Engineering (NEVVE) 2017, 15-18 Dec, Hong Kong, China.
135. International Organizing Committee, 5<sup>th</sup> European Conference on Renewable Energy Systems (ECRES) 2017, 27-30 August, Sarajevo, Bosnia-Herzegovina.
136. Expert Panel, Panel Evaluator for Journal Category Expert on MAPIM-KPT 2016 Best Journal Award, Feb 2017, Ministry of Higher Education (MOHE), Putrajaya.
137. Expert Panel and Technical Committee, International Engineering Research and Innovation Symposium (IRIS) 2017, 05-07 May, Kings Green Hotel, Melaka, Malaysia.
138. Program Committee Chair, International Conference on MEMS, Nanotechnology and Precision Engineering (ICMNPE) 2017, August 25-27, Busan, Korea.
139. Conference Scientific Committee, International Conference on Air Quality and Environmental Sustainability (ICAQES) 2017, 23 – 24 August, Universiti Malaysia Terengganu, Kuala Terengganu, Terengganu.
140. Technical Program Committee, 2<sup>nd</sup> International Conference on Environmental Research and Public Health (ICERP) 2017, 20-22 Oct, Shenzhen, China.
141. Technical Committee Member, 9th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT) 2018, 10-13 February, Cape Town, South Africa.
142. Technical Committee Member, 4th International Conference on Information Management and Industrial Engineering (ICII) 2018, 10-13 February, Cape Town, South Africa.
143. International Advisory Committee, 1<sup>st</sup> International Conference on Advances in Engineering and Technology (ICAET) 2017, 28-29 Dec, Karpagam University, India.
144. Program Committee Member, International Conference on Advanced Technologies Enhancing Education (ICAT2E) 2017, 18-20 Mar, Qingdao, China.
145. Scientific Committee and Reviewer, 8<sup>th</sup> International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT) 2017, 26-28 Apr, Venice, Italy.
146. Scientific Committee, 13<sup>th</sup> WSEAS International Conference on System Science and Simulation in Engineering (ICOSSE) 2017, 27-29 Sep, Dubrovnik, Croatia.
147. Technical Program Committee and Reviewer, 2<sup>nd</sup> International Conference on Innovative Material Science and Technology (IMST) 2017, 20-22 Oct, Kunming, China.
148. Technical Chair, 4th International Conference on Mechanical Properties of Materials (ICMPM) 2017, 2-4 Dec, St. Petersburg, Russia.
149. International Scientific Committee, 13<sup>th</sup> International Conference on Heat and Mass Transfer (HMT) 2017, 15-17 Dec, Rome, Italy.
150. International Advisory Committee Member, 12<sup>th</sup> International Conference on Intelligent Systems and Control (ISCO) 2018, Mechanical Engineering Department, Karpagam College of Engineering, India.

151. Scientific Committee, 16<sup>th</sup> International Conference on Heat Transfer, Thermal Engineering and Environment (HTE) 2018, 22 – 24 Jun, Sliema, Malta.
152. Committee Member, European Advanced Energy Materials and Technology Congress (AEMC) 2018, 25-28 Mar, Stockholm, Sweden.
153. Scientific Committee, 9<sup>th</sup> International Conference on Theoretical and Applied Mechanics (TAM) 2018, 22 – 24 Jun, Sliema, Malta.
154. Scientific Committee, 1<sup>st</sup> International Graduate Conference on Emerging Trends in Multidisciplinary Approaches (ICGETMA) 2018, 16-18 Feb, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
155. Scientific Committee Member, 7<sup>th</sup> International Conference on Applied Mathematics, Simulation, Modeling (ASM) 2018, 13-15 Apr, Paris, France.
156. Scientific Committee, 16<sup>th</sup> International Conference on Fluid Mechanics & Aerodynamics (FMA) 2018, 22 – 24 Jun, Sliema, Malta.
157. Conference Committee, European Advanced Materials Congress (EAMC) 2018, 20 - 23 August, Stockholm, Sweden.
158. Conference Main Committee, 2<sup>nd</sup> International Joint Conference on Civil and Mechanical Engineering (JCCME) 2018, 26-28 October, Seoul, South Korea.
159. Technical Committee, 2<sup>nd</sup> International Conference on Robotics and Mechatronics (ICRoM) 2018, 9-11 November, Singapore.
160. Scientific Committee, 1<sup>st</sup> International Conference on Automotive, Manufacturing, and Mechanical Engineering (ICAMME) 2018, on 26-28 September, Bali, Indonesia.
161. Technical Committee, 5<sup>th</sup> International Conference on Mechatronics, Automation and Manufacturing (ICMAM) 2018, 20-22 October, Nha Trang, Vietnam.
162. Conference Main Committee, 2nd International Conference on New Energy Vehicle and Vehicle Engineering (NEVVE) 2018, 26-28 Oct, Seoul, Korea.
163. Programme Committee, 3<sup>rd</sup> International Conference on Mechanical Engineering (MEN) 2018, 27-28 Oct, Dubai, United Arab Emirates.
164. Technical Committee, International Postgraduate Conference on Mechanical Engineering (IPCME) 2018, 31 October, Faculty of Mechanical Engineering (UMP), Pekan, Malaysia.
165. Technical Committee, 3<sup>rd</sup> International Conference on Engineering Design and Analysis (ICEDA) 2018, 20-22 October, Nha Trang, Vietnam.
166. Technical Committee, 2<sup>nd</sup> International Conference on Automation and Mechatronics Engineering (ICAME) 2018, 9-11 November, Singapore.
167. International Scientific Committee, International Conference on Robotics, Digital Manufacturing and Industrial Engineering (ICRDMIE) 2018, 5-6 December, Kuala Lumpur, Malaysia.
168. International Scientific Committee, 20<sup>th</sup> International Conference on Materials Processing (ICMP) 2018, 13-14 Dec, Rome, Italy.
169. Technical Committee, International Joint Conference on Robotics, Automation and Mechatronics (JCRAM) 2018, 13-15 Dec, Wellington, New Zealand.
170. Advisory Committee, 4<sup>th</sup> GoGreen Summit 2018 - Conflicts and Solutions concerning Climate Change & Sustainable Green Environment, 29-30 December, Holiday Inn Express Kuala Lumpur City Center, Malaysia.
171. Technical Committee Member, 10th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT) 2019, 15-17 February, Cape Town, South Africa.
172. Scientific Review Committee, AETA 1<sup>st</sup> International Conference on Engineering Technology, Applied Sciences, Communication & Media (EACM) 2019, 16-17 February, Rome, Italy.
173. Technical Committee, International Conference on Functional Materials and Manufacturing Engineering (FMME) 2019, 26-28 Feb, Hong Kong, China.

174. Scientific Review Committee, AETA 1<sup>st</sup> International Conference on Applied Sciences, System Engineering, Information Technology & Networking (ASIN) 2019, 09-10, February, Paris, France.
175. Program Committee Chair, International Conference on MEMS, Nanotechnology and Precision Engineering (ICMNPE) 2019, April 26-28, Shanghai, China.
176. Scientific Review Committee, AETA International Conference on Nanotechnology, Robotics, Smart Material, Engineering & Applied Sciences (NRSEA) 2019, 19-20 March, Rome, Italy.
177. International Scientific Committee, 4<sup>th</sup> International Conference on Electronic Technology and Information Science (ICETIS) 2019, 22-24 Feb, Shenzhen, China.
178. Scientific Review Committee, AETA International Conference on Space Environment, Aviation Technology, Applied Sciences, Engineering & Information Technology (SAEIT) 2019, 9-10 March, Paris, France.
179. International Scientific Committee, 7<sup>th</sup> International Congress on Technology, Engineering and Science (ICONTES) 2019, 26-27 July, Kuala Lumpur, Malaysia.
180. Technical Committee, 2<sup>nd</sup> International Conference on Aeronautical, Aerospace and Mechanical Engineering (AAME) 2019, 26-28 Jul, Prague, Czech.
181. Conference Main Committee, 3<sup>rd</sup> International Conference on New Energy Vehicle and Vehicle Engineering (NEVVE) 2019, 18-20 Oct, Jeju Island, Korea.
182. Organizing Committee Member, 2<sup>nd</sup> International Conference on Nanotechnology and Material Science (Nano and Material Science) 2019 18-19 November, Valencia, Spain.
183. Technical Committee, 3<sup>rd</sup> International Conference on Automation and Mechatronics Engineering (ICAME) 2019, 25-27 November, Phuket, Thailand.
184. Co-Chairman, 1<sup>st</sup> National University Co-Curricular Conference (NUCC) 2019, 10-11 July, UPM, Serdang, Malaysia.
185. Technical Committee, International Joint Conference on Robotics, Automation and Mechatronics (JCRAM) 2019, 12-14 Dec, Wellington, New Zealand.
186. Technical Committee, 2<sup>nd</sup> International Conference on Control and Robot Technology (ICCRT) 2019, 25-27 November, Phuket, Thailand.
187. Technical Committee, International Conference on Mechanical, Aerospace and Automotive Engineering (MAAE) 2019, Hong Kong Society of Robotics and Automation (HKSRA), 15-17 Oct, Jeju Island, Korea.
188. Technical Committee Co-Leader, Malaysian Technical Universities Conference on Engineering & Technology (MUCET) 2019, 19-22 Nov, Kuantan, Pahang, Malaysia.
189. Technical Programme Committee, 6<sup>th</sup> International Conference on Applications and Design in Mechanical Engineering (ICADME) 2019, 26 - 27 Aug, Penang Island, Malaysia.
190. Programme Committee, 4<sup>th</sup> International Conference on Mechanical Engineering (MEN) 2019, 31 Aug - 01 Sept, Dubai, United Arab Emirates (UAE).
191. Advisory Committee, 22<sup>nd</sup> World Conference on Applied science, Engineering and Technology (WCASET) 2019, 26 - 27 Sept, Holiday Inn Singapore Atrium, Singapore.
192. Technical Committee, International Conference on Engineering Education and Innovation, (ICEEI) 2019, 21 – 23 Sept, Seoul National University, Seoul, Republic of South Korea.
193. International Advisory Board, 24<sup>th</sup> World Conference on Applied Science, Engineering and Technology (WCASET), 26 -27 Nov 2019, Holiday Inn Express City Centre Kuala Lumpur, Malaysia.
194. Technical Committee Member, 11<sup>th</sup> International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT) 2020, 20-22 Jan, Cape Town, South Africa.
195. International Advisory Committee, KIIT International Conference on Thermofluids (KIIT THERMO) 2020, 23-25 Jan, School of Mechanical Engineering, KIIT Bhubaneswar, India.
196. Technical Committee Member, 4<sup>th</sup> International Conference on Information Management and Industrial Engineering (ICII) 2020, 20-22 Jan, Cape Town, South Africa.

## Books and Modules Review & Technical Editor

- 1) Book Review: Oxford Advisory Board, Oxford University Press, Introduction to Programming, by Wan Anisha Wan Mohammad, Azlina Mohd Mydin and Sopiha Ishak, Oxford Fajar, December 2018.
- 2) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Kepimpinan Tun Abdul Razak, Universiti Tun Hussien Onn Malaysia (UTHM), March 2019.
- 3) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Belangkas Di Malaysia, Universiti Malaysia Terengganu (UMT), March 2019.
- 4) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Meremajakan Ghazal Parti, Universiti Sains Malaysia (USM), March 2019.
- 5) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Peringatan Untuk Mereka Yang Lupa, Universiti Malaysia Sarawak (UniMAS), March 2019.
- 6) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Eco-Shift Holistic Transformation towards Environmental Sustainability, (Institut Terjemahan Buku Malaysia (ITBM) & Universiti Teknologi Malaysia (UTM), March 2019.
- 7) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Cherita Sutradara & Seniman Mamat Khalid, Universiti Pendidikan Sultan Idris (UPSI), March 2019.
- 8) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Wild Fungi of Sabah, Universiti Malaysia Sabah (UMS), March 2019.
- 9) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: 10 Juadah Nan Berkisah, Universiti Malaysia Kelantan (UMK), March 2019.
- 10) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Batu Permata, Dewan Bahasa & Pustaka (DBP), March 2019.
- 11) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Landscapes of Sintok, Universiti Utara Malaysia (UUM), March 2019.
- 12) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Traditional Anthropological Performance Healing in Malaysia, Universiti Putra Malaysia (UPM), March 2019.
- 13) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Beauty of Balance from the Perspective of Built Environment, Universiti Sains Islam Malaysia (USIM), March 2019.
- 14) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Paya Bungor Nadir & Herba, Universiti Teknologi MARA (UiTM), March 2019.
- 15) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Mengukuh Tradisi Membina Wibawa, Universiti Pertahanan Nasional Malaysia (UPNM), March 2019.
- 16) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Kemahiran Bernilai Tambah, Universiti Kebangsaan Malaysia (UKM), March 2019.
- 17) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Through the Year the Debate Legacy of IIUM, International Islamic University Malaysia (IIUM), March 2019.
- 18) Rekabentuk Buku, Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Aqal Ilmu & Pendidikan, Institut Kefahaman Islam Malaysia (IKIM), March 2019.
- 19) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Pengenalan Konsep Kitar Hayat, Dewan Bahasa & Pustaka (DBP), Feb 2019.
- 20) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Isu-isu Doping dalam Dunia Sukan, Universiti Sains Malaysia (USM) Press, Feb 2019.
- 21) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: A Problem-Based Learning Approach on Managing Zoonotic Diseases, Universiti Malaysia Kelantan (UMK) Press, Feb 2019.
- 22) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Current Issue in Pharmacy Volume 2, Universiti Islam Antarabangsa (UIA) Press, Feb 2019.

- 23) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: ICT in Human Behaviour, Universiti Teknikal Malaysia Melaka (UTEM) Press, Feb 2019.
- 24) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Teknologi Semikonduktor dan Nanoelektronik Perkembangan dan Kegunaan, Universiti Kebangsaan Malaysia (UKM) Press, Feb 2019.
- 25) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Algae Biodiversity, Influential Parameters and the Applications, Universiti Malaysia Pahang (UMP) Press, Feb 2019.
- 26) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Plant Science and Its Application, Universiti Teknologi Malaysia (UTM) Press, Feb 2019.
- 27) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Teori dan Praktis Pembangunan Sahsiah Guru, Universiti Pendidikan Sultan Idris, (UPSI) Press, Feb 2019.
- 28) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Ulama dan Perkembangan Islam di Sarawak dan Sabah, Universiti Kebangsaan Malaysia (UKM) Press, Feb 2019.
- 29) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Perundangan Islam Kontemporari di Malaysia, Universiti Sultan Zainal Abidin (UniSZA) Press, Feb 2019.
- 30) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: From Pedagogy to Heutagogy
- 31) Universiti Teknikal Malaysia Melaka (UTeM) Press, Feb 2019.
- 32) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Education for Underprivileged Primary and Secondary Students in Malaysia, Universiti Malaysia Sabah (UMS) Press, Feb 2019.
- 33) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Pembangunan Kontemporari Orang Asli, Universiti Putra Malaysia (UPM) Press, Feb 2019.
- 34) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: The Management of WAQF, Universiti Sains Islam Malaysia (USIM) Press, Feb 2019.
- 35) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Regulation and Supervision of Islamic Microfinance, Universiti Islam Antarabangsa (UIA) Press, Feb 2019.
- 36) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Sumbu Dunia Melayu, Universiti Malaya (UM) Press, Feb 2019.
- 37) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Prasejarah dan Protosejarah Tanah Melayu, Dewan Bahasa & Pustaka, Feb 2019.
- 38) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Sustainability of Higher Education, Unicersiti Sains Malaysia (USM) Press, Feb 2019.
- 39) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: The Middle East Arc of Crisis Political Spin-Off & Development Outcome, Universiti Teknologi Malaysia (UTM) Press, Feb 2019.
- 40) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Dunia Melayu, Universiti Malaysia Perlis (UniMAP) Press, Feb 2019.
- 41) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Etnoarkeologi di Malaysia, Tun Hussein Onn University of Malaysia (UTHM) Press, Feb 2019.
- 42) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Prinsip Pemasaran Seni, Universiti Malaysia Sarawak (UniMAS) Press, Feb 2019.
- 43) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Isu-isu Ekonomi Pantai Timur, Universiti Malaysia Terengganu (UMT) Press, Feb 2019.
- 44) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Dirgahayu Darul Makmur, Universiti Malaysia Pahang (UMP) Press, Feb 2019.
- 45) Buku Suntingan Majlis Penerbitan Ilmiah Malaysia (MAPIM), Title: Insights into Language Teaching and Learning, Universiti Utara Malaysia (UUM) Press, Feb 2019.
- 46) Research Book Evaluation, Anti-Bribery Management System (ABMS), Hasnah Haron, Ishak Ismail, Kamal Zuhairi Zamli, et al., IPS, UMP Press, Jan 2019.

- 47) Research Book Evaluation, Algae, Biodiversity, Influential Parameters and the Application, Natanamurugaraj Govindan, Mashitah Mohd Yusoff, Gaanty Pragas Maniam, FIST, UMP Press, Jan 2019.
- 48) Research Book Evaluation, Modul Biofeedback Untuk Program Pemulihan Dadah dan Pengukuhan Akhlak, Muhammad Nubli Abdul Wahab, Zulkifli Aziz, PBMSK, UMP Press, Jan 2019.
- 49) Research Book Evaluation, Herbal Plants: Tumbuh-Tumbuhan Herba Tradisional di Malaysia, Ahmad Ziad Sulaiman, Azilah Ajit, Badrulhisham Abdul Aziz, FKKSA, UMP Press, Jan 2019.
- 50) Research Book Evaluation, Disasters in Malaysia Tomorrow is A Mystery, Mohamad Idris Ali, Noram Irwan Ramli, Rokiah Othman, Mohd Arif Sulaiman, Editor: Youventharan Duraisamy, FKASA, UMP Press, Jan 2019.
- 51) Research Book Evaluation, Engineering, Ethics, Professionalism and Its Applications, Editors: Azizan Ramli, Mohd Bijarimi Mat Piah, Rozaimi Abu Samah, FKKSA, UMP Press, Jan 2019.
- 52) Research Book Evaluation, Sustainable Special Concrete, Khairunisa Muthusamy, Mohd Warid Hussin, Nor Hasanah Abdul Shukor Lim, et al., FKASA, UMP Press, Jan 2019.
- 53) Research Book Evaluation, Pendidikan Tahfiz dan Kemahiran Insaniah, Rashidi Abbas, Azhar Jaafar, PBMSK, UMP Press, Jan 2019.
- 54) Research Book Evaluation, Dirgahayu Darul Makmur, Editor: Jamal Rizal Razali, PBMSK, UMP Press, Jan 2019.
- 55) Research Book Evaluation, A Brief of Wastewater Treatments, Al-Amshawee Sajjad, Ramesh Kanthasamy, FKASA, UMP Press, Jan 2019.
- 56) Research Book Evaluation, Scaffolds from Hydroxyethyl Cellulose For Skin Tissue Engineering, Fathima Shahitha, Farah Hanani Zulkifli, Mashitah Mohd Yusoff, Suganda Chahal, FIST, UMP Press, Jan 2019
- 57) Book / Manuscript Evaluation, Faculty of Industrial Management UMP, Thesis Guideline for Bachelor of Business Engineering, by Gusman Nawanir, Lee Khai Loon, Fatimah Mahmud and Lee Chia Kuang, UMP Press, December 2018.
- 58) Book / Manuscript Evaluation, Faculty of Industrial Management UMP, Manuscript Evaluation, Final Year Project Guideline, by Gusman Nawanir, Fatimah Mahmud and Lee Chia Kuang, UMP Press, December 2018.
- 59) Technical Editor: MPOB Book, Accelerating Oil Palm Mechanisation – Innovation and Adaptation, Malaysia Palm Oil Board (MPOB), August 2018.
- 60) Book Moderator: OUM Module, Lean Six Sigma (EBLS4103), Centre for Instructional Design & Technology, Faculty of Science and Technology, Open University Malaysia (OUM), August 2016.

## Management and Administrative Committees

- 1) UMP Judge (Hakim) of Student Discipline Tribunal, since 2018
- 2) Chairman, Jawatankuasa Penerbitan UMP, since 2018
- 3) Chairman, UMP Student Management and Development Committee (JPPP), 2018.
- 4) Member, UMP Jawatankuasa Pengurusan dan Pengembangan Akademik, 2016 to 2018.
- 5) Chairman, Jawatankuasa Panel Katagori Makalah (Journal) Terbaik Anugerah MAPIM-KPM 2018, Ministry of Education (MoE), Malaysia, 2019.
- 6) Member, Jawatankuasa Panel Katagori Rekabentuk Buku Terbaik Anugerah MAPIM-KPM 2018, Ministry of Education (MoE), Malaysia, 2019.
- 7) Member, Jawatankuasa Pengurusan Keewangan & Akaun (JPKA) Universiti, UMP, 2018 to date.
- 8) Member, Jawatankuasa Panel Katagori Karya Suntingan Anugerah Buku MAPIM-KPM 2018, Ministry of Education (MoE), Malaysia, 2019
- 9) Member, MAPIM New Membership Committee, 2019.

- 10) Member, Jawatankuasa Pemilih Anugerah Cendekia Bitara UMP 2018, 2019.
- 11) Deputy Chairman, Technical Committee UMP ePortfolio, 2018-2019.
- 12) Member, 2018/2019 UMP MPP Election Main Committee, 2018.
- 13) Leader, Task Force for Master by Coursework MQA committee, 2016.
- 14) Member, Task Force for FKM Dwi-Ijazah BHA EAC committee, 2016.
- 15) Member, Task Force for FKM program review by stakeholders, 2015.
- 16) Member, FKM Jawatankuasa Pengajian Siswazah dan Penyelidikan, 2015 to 2018.
- 17) Member, FKM Jawatankuasa Jaringan Industri, 2015 to 2018.
- 18) Member, FKM EAC Audit untuk BMA dan BMM, 2015 to 2017
- 19) Member, FKM Penilai Geran Penyelidikan, 2007 to date
- 20) Leader, FKM APEX15 Committee, 2008 to 2011.
- 21) Chairman, UMP Professorial Lecture Committee, 2009 - 2010.
- 22) Member, New Programme Setup - Bachelor of Marine Engineering, 2009
- 23) Member, UMP Cendekia Bitara Award Main Committee 2008, 2009
- 24) Member, UMP JK Tetap Senat (JKTS), Penyelidikan & Pengembangan Ilmu, 2009-2010.
- 25) Member, UMP Jawatankuasa Penyelaras Penyelidikan (JKPP), 2009 to 2010.
- 26) Member, UMP Jawatankuasa Pengurusan Pengajian Siswazah, (JPPS) 2009 to 2010.
- 27) Leader, FKM Thermodynamics Laboratory, 2009 to 2010
- 28) Advisor, UMP Auto Show by SAE Student Chapter, 2009 to 2010.
- 29) Advisor, UMP Committee for PERODUA Eco-Challenge, 2009 to 2010.
- 30) Chairman – Jawatankuasa Kualiti Pengajian Siswazah dan Penyelidikan, 2009 to 2010.
- 31) Chairman – Program Book & Gift, Sub-com for 1<sup>st</sup> UMP Cendekia Bitara Award Committee, 2009.
- 32) Technical committee, Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET 2009)
- 33) Lead webmaster & administrator for IJAME Website (<http://ijame.ump.edu.my>)
- 34) Member, Jawatankuasa Akhbar Sisipan Konvo, 2009.
- 35) Member, UMP Integrated Management System Committee, 2009 to 2010.
- 36) Member, UMP Research Committee, 2009 to 2010.
- 37) Advisor, ASME Student Club, 2009 to 2010.
- 38) Member, Committee for MoU Setup between UMP and Hicom Automotive Manufacturers Sdn Bhd.
- 39) Leader, 2009 FKM Stakeholders Committee Meeting, (Dec'08-Mar'09)
- 40) Member, UMP Committee for Malaysian Qualification Agency Audit (2008 to 2010)
- 41) Main Founder and Leader for UMP International Journal of Automotive and Mechanical Engineering (IJAME) Setup Committee (2008).
- 42) Member, UMP Automotive Excellent Centre Auto News Bulletin Editorial Board (2009 to 2010)
- 43) Member, FKM ISO9001 Committee, (2008 to 2010)
- 44) Leader, 2009 FKM Industrial Advisory Panel Committee Meeting, (Dec'08-Mar'09)
- 45) Member, 2009 FKM EAC Task Force for BMM Accreditation, Nov'08-Jul'09.
- 46) Leader, FKM EAC Task Force for OBE Transformations. (Sept'08 to 2010)
- 47) Member, New Program, Biomechanics Feasible Analysis Committee, (Dec'08 - Mar'09)
- 48) Member, Setup Comm. UMP-DRB Hicom Automotive Institute, 2008 to 2009.
- 49) Member, UMP 5S Committee, Apr'08 to date.
- 50) Chairman, 2008 FKM EAC Task Force for BMA and BMF Accreditation, 2007-2008.
- 51) Member, JK Kajian Pengubalan Dasar Akademik UMP, 2008.

- 52) Member, JK Penganugerahan Fakulti, 2008 to 2010.
- 53) Member, FKP Laboratory Setup Committee, 2008.
- 54) Member, Faculty Research and Postgraduate Committee, 2007 to 2010.
- 55) Member, Faculty Interviewer Committee, 2007 to 2010.
- 56) Member, Faculty Technical Committee (JKTF), Jan 2007 to Oct 2010.
- 57) Lead Facilitator, Faculty Quality Unit, Aug 2007 to 2010.
- 58) Coordinator, Automotive Eng. Dept. Examination, Apr'07 to Dec'07.
- 59) Member, FKM EAC Task Force for BMM Accreditation, Apr'07-Aug'07.
- 60) Sub-Leader, New Faculty Setup Committee (Fak. Kej. Pembuatan), Apr'07 to Jan'08.
- 61) Member, Faculty Academic and Examination Committee, Jan'07 to date.
- 62) Chairman, Automotive Engineering Department Meeting. Dec'07 to Feb'2009.
- 63) Leader, Thermodynamics, Heat Transfer and Fluid Mechanic Laboratory setup. 2007-2008.
- 64) Leader, Faculty Stakeholder Committee, 2007.
- 65) Member, Academic Clinic MechaPro Committee, Dec'06 to 2010.

## Teaching Experience

### Course Coordinator (c)

1. MAY 2018/2019
  - SMSS5203 Six Sigma (c), (OUM), 3 credits, (6 Master Students)
  - EMRM5103 Project Risk Management (c), 3 credits, (1 Master Student)
  - SMOP5206 OUM Research Project MOSHRM (c) (10 Master Students)
2. SEP 2018/2019
  - SMSS5203 Six Sigma (c), (OUM), 3 credits, (5 Master Students)
  - EMRM5103 Project Risk Management (c), 3 credits, (1 Master Student)
  - SMOP5206 OUM Research Project MOSHRM (c) (9 Master Students)
3. MAY 2017/2018
  - SMSS5203 Six Sigma (c), (OUM), 3 credits, (5 Master Students)
  - SMOP5206 OUM Research Project MOSHRM (c) (8 Master Students)
4. FEB 2017/2018
  - SMSS5203 Six Sigma (c), (OUM), 3 credits, (11 Master Students)
  - EBLS4103 Lean Six Sigma (c), (OUM), 3 credits, (2 Degree Students)
  - SMOP5206 OUM Research Project MOSHRM (c) (10 Master Students)
5. SEPT 2017/2018
  - BHA4022 Project Management (c), 2 credits (24 Students)
  - BMM4924 Final Year Project 2, 4 credits (3 Students)
  - BHA4906 Bachelor Thesis, 12 credit (1 Student)
  - SMSS5203 Six Sigma (c), (OUM), 3 credits, (4 Master Students)



SMOP5206 OUM Research Project MOSHRM (c) (10 Master Students)

6. MAY 2016/2017

SMSS5203 Six Sigma (c), (OUM), 3 credits, (5 Master Students)

SMOP5206 OUM Research Project MOSHRM (c) (9 Master Students)

7. FEB 2016/2017

BHA4224 Automotive Engineering, 4 credits (20 Students)

BMM4924 Final Year Project 2, 4 credits (2 Students)

BHA4906 Bachelor Thesis, 12 credit (1 Student)

SMSS5203 Six Sigma (c), (OUM), 3 credits, (1 Master Student)

SMOP5206 OUM Research Project MOSHRM (c) (9 Master Students)

8. SEPT 2016/2017

BMM4623 Mechanical System Design, 3 credits (148 Students)

BMM4704 Integrated Design Project, 3 credits (1 Students)

BMM4924 Final Year Project 1, 4 credits (2 Students)

BHA4906 Bachelor Thesis, 12 credit (1 Student)

SMSS5203 Six Sigma (c), (OUM), 3 credits, (8 Master Students)

SMSS5204 Six Sigma (c), (OUM), 3 credits, (7 Master Students)

SMOP5206 OUM Research Project MOSHRM (c) (9 Master Students)

9. MAY 2015/2016

SMSS5203 Six Sigma (c), (OUM), 3 credits, (1 Master Student)

SMOP5206 OUM MOSHRM Research Project (9 Master Students).

10. FEB 2015/2016

BMM4623 Mechanical System Design (c), 3 credits (90 Students)

BHA4903 Team Oriented Project Study (c), 3 credits (20 Students)

BMM4924 Final Year Project 2, 4 credits (5 Students)

SMSS5203 Six Sigma (c), (OUM), 3 credits, (6 Master Students)

SMOP5206 OUM MOSHRM Research Project (6 Master Students).

11. SEPT 2015/2016

BMM4833 Quality Engineering (c), 3 credits (30 Students)

BMM4623 Mechanical System Design (c), 3 credits (187 Students)

MME6113 Research Methodology (c), (22 Students)

BMM4912 Final Year Project 1, 2 credits (9 Students)

BMM4999 Industrial Training, 6 credits (12 students)

BMM4993 Industrial Training Report, 3 credits (12 Students)

BHA4833 Quality Engineering (c), 3 credits (1 Student) German Student.

SMSS5203 Six Sigma (c), (OUM Subject Matter Expert), 3 credits, (5 Master Students)

SMOP5206 OUM MOSHRM Research Project (3 Master Students).

12. FEB 2014/2015

- BMM4623 Mechanical System Design (c), 3 credits (120 Students)
- BMA4704 Integrated Design Project (c), 4 credit (120 Students)
- BMM4833 Quality Engineering, 3 credits (35 Students)
- BHA2612 Computer Aided Design (c), 2 credits (20 Students)
- BHM1612 CAD Modelling (c), 2 credits (20 Students)
- BMM4912 Final Year Project 1, 2 credits (7 Students)
- BMM4924 Final Year Project 2, 4 credits (7 Students)
- SMSS52034 Six Sigma (c), (OUM Subject Matter Expert), 4 credits, (6 Master Students)
- SMOP5206 OUM MOSHRM Research Project (3 Master Students).

13. SEPT 2014/2015

- BMM4833 Quality Engineering (c), 3 credits (60 Students)
- BMI4733 Quality Engineering (c), 3 credits (10 Students)
- BMM4623 Mechanical System Design (c), 3 credits (165 Students)
- BMM3513 Heat Transfer, 3 credits (20 Students)
- BMM3643 Manufacturing Processes, 3 credits (70 Students)
- BMM2643 Manufacturing Processes, 3 credits (5 Students)
- BMM4912 Final Year Project 1, 2 credits (7 Students)
- BMM4924 Final Year Project 2, 4 credits (7 Students)

14. FEB 2014/2015

- MEC2101 Thermodynamics, 4 credits (USQ Tutor) (100 Students)

15. SEPT 2013/2014

- ENG3103 Engineering Problem Solving Computations, 4 credits (USQ Tutor) (100 Students)

16. FEB 2013/2014

- MEC2101 Thermodynamics, 4 credits (USQ Tutor) (100 Students)

17. SEPT 2012/2013

- ENG3103 Engineering Problem Solving Computations, 4 credits (USQ Tutor) (240 Students)

18. FEB 2012/2013

- MEC2101 Thermodynamics, 4 credits (USQ Tutor) (100 Students)
- MEC4104 Energy Technology, 4 credits (USQ Tutor) (50 Students)

19. SEPT 2011/2012

- ENG3103 Engineering Problem Solving Computations, 4 credits (USQ Tutor) (220 Students)

20. FEB 2011/2012

- MEC2101 Thermodynamics, 4 credits (USQ Tutor) (100 Students)

MEC3102 Fluid Mechanics, 4 credits (USQ Tutor) (100 Students)

21. JUL 2010/2011

BMF4753 Quality Engineering, 3 credit (70 Students)

DMM2932 Mechanical Technology Lab 3, 2 credit (70 Students)

BMM3923 Final Year Project 2, 4 credits (7 Students)

22. DEC 2009/2010

BMF4703 Production Planning Control (c), 3 credits (70 Students)

BMM2523 Thermodynamics 2, 3 credits (250 Students)

BMM2011 Occupational Safety and Health, OSHA, 1 Credit (250 Students)

BMM3912 Final Year Project 1, 2 credits (4 Students)

BMM4999 Industrial Training, 9 credits (3 students)

BMM4993 Industrial Training Report, 3 credits (3 students)

23. JUL2009/2010

BMF4703 Production Planning Control (c), 3 credits (70 Students)

BMM1011 Fundamental of Engineering (c), 1 credit (240 Students)

BMM1523 Engineering Material, 3 credits (240 Students)

BMM2513 Thermodynamics 1, 3 credits (261 Students)

BMM3923 Final Year Project 2, 4 credits (11 Students)

24. MAY 2008/2009 (Short Semester)

BMM2523 Thermodynamics 2 (c), 6 credits (20 Students)

25. DEC 2008/2009

BMM3633 Industrial Engineering (c), 3 credits (220 Students)

BMM2523 Thermodynamics 2, 3 credits (240 Students)

BMM3912 Final Year Project 1, 2 credits (11 Students)

BMM3923 Final Year Project 2, 4 credits (1 Students)

BMM4999 Industrial Training, 9 credits (6 students)

BMM4993 Industrial Training Report, 3 credits (6 students)

26. JUL2008/2009

BMM1523 Engineering Material (c), 3 credits (3+0) (240 Students)

BMM3613 Automatic Control (c), 3 credits (220 Students)

BMM3923 Final Year Project 2, 4 credits (9 Students)

BMM4999 Industrial Training, 9 credits (9 students)

BMM4993 Industrial Training Report, 3 credits (9 students)

27. MAY 2007/2008 (Short Semester)

BMM2513 Thermodynamics 1, 6 credits (35 Students)

28. DEC 2007/2008

BMM2523 Thermodynamics 2 (c), 3 credits (225 Students)

BMM3912 Final Year Project 1, 2 credits (16 Students)

BMM4999 Industrial Training, 9 credits (8 students)

BMM4993 Industrial Training Report, 3 credits (8 students)

29. JUL 2007/2008

BMM1523 Engineering Material (c), 3 credits (200 Students)

BMM3923 Final Year Project 2, 4 credits (9 Students)

BMM4999 Industrial Training, 9 credits (3 students)

BMM4993 Industrial Training Report, 3 credits (3 students)

30. MAY 2006/2007 (Short Semester)

BMM2523 Thermodynamics 2 (c), 6 credits (65 Students)

31. DEC 2006/2007

BMM2523 Thermodynamics 2 (c), 3 credits (210 Students)

BMM3912 Final Year Project 1, 2 credits (9 Students)

BMM4999 Industrial Training, 9 credits (7 students)

BMM4993 Industrial Training Report, 3 credits (7 students)

## Postgraduate Supervision

### Post Doctorate Supervision

1. Post Doctorate Researcher: Dr. Adnan Mohammed Hussein, Development of Bio-Lubricant with Nano Particle for Automotive, 2016 – 2017 (Completed).

### Post Graduate Supervision (Graduated & Completed)

2. PhD Student: Khalaf Ibraheem Hamada, PMA08003, PhD (Automotive), Study of Hydrogen Fuelled Internal Combustion Engine Heat Transfer, 2008-2011, Co-Supervisor (Completed).
3. Master Student: Nurul Hidayah, (MMM10002), Performance Analysis on Minimum Quantity Lubricant on Milling Machining, 2009 - 2011, Co-Supervisor (Completed).
4. Master Student: Maizatul Asnida Hassan (MMM14041), Tribology of Cooper Oxide Nano Particle Biolubricant to Improve Engine Durability, 2014 - 2018, Main Supervisor (Completed).
5. Master Student: Hemin Mohammed Mohy Al-Deen, (MMM08001), Master of Engineering (Mechanical), Robust Design of Suspension Arm, 2008 - 2010, Co-Supervisor (Completed).
6. Master Student: Aima Roslina Abdul Nasir (CGS00883230), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, The Implementation of OHSAS18001 to Improve Safety and Health Awareness in Education Industries, Main Supervisor, May 2015 (Completed).
7. Master Student: Norhaslida Othman (CGS00894430), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, An application of Six Sigma Tools to Study on Higher Education Performance in Malaysia, Main Supervisor, May 2015 (Completed).

8. Master Student: Tan Wei Nee (CGS00915630) Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, The Analysis of the Safety Measures Taken after the Fall of Worker from Height Workplace in Malaysia, Main Supervisor, Jan 2016 - May 2019 (Completed).
9. Master Student: Mohd Azlan Bin Ayob (CGS 01411930), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, Workers' Perception of Process Safety Management in Oil and Gas Production Platform in Malaysia, Main Supervisor, Sep 2018 - May 2019 (Completed).
10. Master Student: Karrer M. Kadum, Master of Engineering, Study the Effect of Polymer Blending on the Physical Properties, Field Supervisor, MSc Student Attachment from University of Technology, Baghdad, Iraq, Field Supervisor, May - Aug 2010, Field Supervisor (Completed).
11. PhD Student: Safaa Hussain Ali Al-Okaidi, PhD (Mechanical), Modelling the Fatigue Behaviour of Shot Panned Aluminium Alloy under Variable Stress Range Conditions, Main Supervisor, PhD Student Attachment, from University of Technology, Baghdad, Iraq, Field Supervisor, June - Dec 2010 (Completed).
12. Master Student: Emi Hafizzul Jamaluddin (MM09001), Master of Engineering (Mechanical), The Analysis of Mean Time Between Failures (MTBF) of Valve at Pneumatic Ilmenite Transfer System, 2009 – 2010.
13. Master Student: Hasrulazmi Hanafi, MMM15005, Combustion Characterization of Ethanol-Diesel Blend in Homogeneous Charge Compression Ignition Engine, 2015 – 2018.
14. Master Student: Yohenthiran Selvaraj (MMM14035), Characteristic of Erabium Nano Particle Based for Lubricant Used, 2015 - 2018.

### **Post Graduate Supervision (PhD - In Progress)**

15. PhD Student: Norhafana Binti Muhamad, PMA17002, Fundamental Study of Nano-Diesel Blend Fuel in a Homogeneous Charge Compression Ignition Engine, Sep 2017, Main Supervisor (in progress).
16. PhD Student: Akram, 1809300060013, Design dan Optimasi Serat E-glass dan Jute untuk Jaloe Aceh, Universitas Syiah Kuala (UNSYIAH), Indonesia, Mar 2019, Co-Supervisor (in progress).
17. PhD Student: Anusuiah Vasu, PMM16007, Experimental Investigation of Different Phase Change Materials as Heat Storage from a Concentrating Solar Collector, Feb 2016, Co-Supervisor (in progress).
18. PhD Student: Che Ku Ihsan Bin Che Ku Abdul Satar, PMA14003, Combustion Characteristic of Emulsified Biodiesel on Multi-Cylinder Diesel Engine, Jul 2015, Main Supervisor (in progress).
19. PhD Student: Zulkiflee Jamal (UPM PhD Student), A Study of Knocking Behaviour in a Homogeneous Charge Compression Ignition (HCCI) Engine Fuelled with Palm Oil and Egusi Based Biodiesel, May 2016, Co-Supervisor (in progress).
20. PhD Student: Muhammad Mukhtar Bin Noor Awalludin, PMM16009, Micro-Explosion Phenomenon of Tri-Fuel Emulsion in Compression Ignition Engine, Aug 2016, Co-Supervisor (in progress).
21. PhD Student: Kaniz Farhana, PMM16021, Development of Multi-Objective Optimization Model to Interact Environmental Impact Between Fossil Fuel and Renewable Energy Resources in Knit Apparels Industries, Jul 2016, Co-Supervisor (in progress).
22. PhD Student: Pshtiwan Mohammad Sharif Shwan, The Effect of Low Intake Air Temperature of Internal Combustion Engine Using Improved Heat Exchanger (Intercooler), Aug 2017, Co-Supervisor (in progress).
23. PhD Student: Mohd Kamal bin Kamarulzaman, PMM15003, Combustion Characteristic of Synthetic Additive Blend Biofuel on Internal Combustion Engine, Main Supervisor 2015-2017.

## **Post Graduate Supervision (Master - In Progress)**

24. Master Student: Mohammad Hafizi Jamaluddin (MMM14006), Combustion Characteristics of Ammonium Perchlorate as Solid Based Fuel, May 2014, Main Supervisor (Waiting for Viva).
25. Master Student: Hasyuzariza Muhamad Tobib (GS48217) UPM Master Student, The Effect of Exhaust Gas Recirculation (EGR) on a Homogeneous Charge Compression Ignition (HCCI) Engine Fueled with Nano Fuels, Mar 2017, Co-Supervisor (Thesis Submitted).

## **Post Graduate Supervision (External Main Supervisor – In Progress)**

26. Master Student: Nurul Nazifah Binti Mamat Nawawi (CGS01622230), Open University Malaysia (OUM), A Study on The Importance of Safety Health Officer Course is Carried Out by E-Learning Method in Terengganu, Main Supervisor, May 2019 (in progress).
27. Master Student: Syed Zukafeli Syed Alwi (CGS01199930), Open University Malaysia (OUM), Quantitative Risk Assessment (QRA) for Segamat Compressor Station, Main Supervisor, May 2017 (in progress).
28. Master Student: Khairul Nizam Abdul Wahid (CGS01247530), Open University Malaysia (OUM), Analysis Crane Accident in The Construction Site, Main Supervisor, Jan 2017 (in progress).
29. Master Student: Zulkefle Mohd Yunus (CGS01243330), Open University Malaysia (OUM), The Study of an Ergonomic Effect Contribute to Workplace Injuries and Illness at Palm Oil Plantation, Main Supervisor, Jan 2017 (in progress).
30. Master Student: Mohd Zaidin Mohd Yunus (CGS01242930), Open University Malaysia (OUM), The Study of the Repetitive Motion for Workplace Ergonomics at Manufacturing Industries in Kuantan, Main Supervisor, Jan 2017 (in progress).
31. Master Student: Ayong Anak Entili (CGS01107830), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, Application of Six Sigma Tools to Improve Safety in Construction Industry, Main Supervisor, Mar 2016 (in progress).
32. Master Student: Anida Yusof (CGS00843630), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, Awareness of False Alarm among Ranaco Group Staffs Based on Knowledge, Practices and Attitude, Main Supervisor, Mar 2016 (in progress).
33. Master Student: Anthony Liaw Chi Kian (CGS00728930), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, Oil and Gas Project Contractors Dilemma in Occupational Safety and Health Performance, A Look at LNG Train-9 Project at Bintulu Sarawak, Main Supervisor, Mar 2016 (in progress).
34. Master Student: Anirawati Mohd Sahir (CGS00993330), Open University Malaysia (OUM), The Implementation of MS ISO 15189 using the Six Sigma Approach in New Department of Pathology & Laboratory Medicine, IIUM, Main Supervisor, Jan 2016 (in progress).
35. Master Student: Khairul Anuar Jusoh (CGS00984530), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, Six Sigma Implementation in Reducing Forklift Accident Rate at Kemaman Supply Base, Terengganu, Main Supervisor, Nov 2015 (in progress).
36. Master Student: Kashfullah Zafifi Ali (CGS00917730), Open University Malaysia (OUM), Master of Occupational Safety & Health Risk Management, The Implementation of Six Sigma Methodology to Improve Safety in Small Medium Enterprises Industry Malaysia, Main Supervisor, May 2015 (in progress).

1. External Examiner (National), Universiti Putra Malaysia (UPM), Master of Science, Muntasser Abdulabbas Mossa (GS47857), An Experimental Study of the Performance of a Homogeneous Charge Compression Ignition (HCCI) Engine Fuelled with Used Cooking Oil Based Biodiesel, 01 Feb 2019.
2. External Examiner (National), Universiti Putra Malaysia, Master of Science, Naser Al Rashidi (GS46346), Experimental Investigation of the Performance of an Animal Fat-Based Biodiesel on a Micro-Gas Turbine, 21 Dec 2018.
3. External Examiner (International) Closed Viva Session, Doktor Ilmu Teknik (PhD), Pasca Sarjana, Universitas Syiah Kuala (UNSYIAH), Razali Thaib (NPM1409300060005), A Study of Utilization Phase Changed Material (PCM) as Cooling Media Integrated Photovoltaic System in Building, Banda Aceh, Indonesia, 12 April 2018.
4. External Examiner (International) Visvesvaraya Technological University, PhD Thesis, Mr. Krishnamurthy K N. (1KG11PMN02), Optimization of Biodiesel Production from Dairy Waste Scum, Hydnocarpus Wightiana Oil, Performance & Emission Characteristic of TBC Compression Ignition Engine with Varying Biodiesel Blends, 24 Dec 2018.
5. External Examiner (International), Hindustan Institute of Technology & Science (Deemed to be University), PhD Thesis, B.Prabakaran (ME0802), Experimental Investigation of Compression Ignition Engine Fuelled with Diesel Ethanol Blend, 22 Oct 2018.
6. External Examiner (International) Closed Viva Session, Doktor Ilmu Teknik (PhD), Pasca Sarjana Universitas Syiah Kuala (UNSYIAH), Hamdani (NPM1409300060004), Macro-Material Encapsulation Development of Phase Change Material (PCM) as Heat Energy Keepers on Building Wall Composite, Banda Aceh, Indonesia, 12 April 2018.
7. Internal Examiner, Universiti Malaysia Pahang, Master of Mechanical Engineering, Ahmad Kamal Bin Topik (KMM15014), A Stress Analysis of a Micro Gear using Finite Element for The Use in Biomedical Cutting Devise, April 2016.
8. External Examiner (International) Open Viva Session, Doktor Ilmu Teknik (PhD), Pasca Sarjana, Universitas Syiah Kuala (UNSYIAH), Razali Thaib (NPM1409300060005), A Study of Utilization Phase Changed Material (PCM) as Cooling Media Integrated Photovoltaic System In Building, Banda Aceh, Indonesia, 14 May 2018.
9. External Examiner (International) Open Viva Session, Doktor Ilmu Teknik (PhD), Pasca Sarjana Universitas Syiah Kuala (UNSYIAH), Hamdani (NPM1409300060004), Macro-Material Encapsulation Development of Phase Change Material (PCM) as Heat Energy Keepers on Building Wall Composite, Banda Aceh, Indonesia, 14 May 2018.
10. Internal Examiner, Universiti Malaysia Pahang, Master of Mechanical Engineering, Khairul Aiman Ishak (KMM15015), The Finite Element Analysis of a Tibia STEM Geometry for Total Knee Replacement, April 2016.
11. Internal Examiner, Universiti Malaysia Pahang, Master of Mechanical Engineering, Zailini Binti Mohd Ali (MEE10001), Development of Touch Screen Operated Electric Wheel Chair for Dwarfism Community, 10 Jun 2016.
12. External Examiner (International), Vinoba Bhave University, Hazaribag, B.I.T.Sindri Dhanbad, India, PhD in Mechanical Engineering, Sunil Kumar, Salt Gradient Solar Pond for the Sustainable Renewable Energy Resources, 2016.
13. External Examiner (National), Universiti Putra Malaysia, Master of Science (Occupational Safety and Health), Putri Anis Syahira Binti Mohamad Jamil (GS41041), Prevalence and Associated Factors of Pulmonary Function and Respiratory Problems among Traffic Policemen, 2016.
14. Internal Examiner, Universiti Malaysia Pahang, Master of Mechanical Engineering, Shafiq Bin Suhaimi (MMM13001), Effect of Valve Modifications on Intake System Characteristic, 02 Dec 2015.

No.	Academic Year	Name of Student	Student ID	Title of Project
1	2016 - 2017	Mohammad Fariz bin Faudzli	MH13054	Experimental Investigations Exhaust Emission of HCCI Engine Fueled with Diesel-Ethanol Fuel Blends
2	2016 - 2017	Amrul Malik bin Lamajid	MH13053	Experimental Investigations on Engine Performance for HCCI Engine Fueled with Diesel-Ethanol Fuel Blends.
3	2016 - 2017	Muhd Eizzaz bin Abdul Azib	HB12021	Investigation of Direct Use of Animal Fat and Diesel Blend as Alternative Fuel on Performance and Emission Characteristic in Internal Combustion Engine.
4	2015 - 2016	Muhammad Syafeeq bin Mohamad Nor	MG11024	Investigation of Emission Effect in Common Rail Direct Injection Diesel Engine Using Water Injection at Intake Manifold and Post Intercooler Position.
5	2015 - 2016	Muhammad Syafiq bin Rusli	MH12018	An Investigation of Performance and Emission Characteristics On Common Rail Direct Injection Using Exhaust Gas Recirculation with Butanol Blends.
6	2015 - 2016	Mohammad Hafizol bin Othman Rashid	MH11040	Investigate the Performance and Emission Effect with Butanol Blend.
7	2015 - 2016	Muhammad Fazrul Qazwan bin Mohd Zaki	MH12064	Experimental and Numerical Study on Temperature Distribution in Furnace Combustion
8	2015 - 2016	Mohd Mukhris bin Awang	MC12012	Numerical Modelling for MILD Combustion Furnace using Computational Fluid Dynamics.
9	2014 - 2015	Muhammad Isamuddin bin Othman	MA11097	Numerical Analysis for Combustor with CFD ANSYS Software
10	2014 - 2015	Mohd Hafiz bin Zakaria	MC11023	CFD Analysis for Furnace Burner using ANSYS FLUENT
11	2014 - 2015	Ahmad Fandi bin Abdul Majid	MA11043	Computational Analysis of MILD Combustion Burner
12	2014 - 2015	Mohd Firdaus bin Mat Yajid	MA11122	Torque and Power Comparison of Port Injection Gasoline and Direct Injection CNG Running on 1.6L Passenger Vehicle Using Chassis Dynamometer Unit
13	2014 - 2015	Nor Hashikin binti Kamarolzaman	MC11063	Calibration and Modelling of Port Fuel Injection for Gasoline Fuel Using Artificial Neural Network
14	2014 - 2015	Muhammad Ashraf bin Azahan	MH11051	Modelling of Port Fuel Injection for Gasoline Fuel
15	2014 - 2015	Farah Nadhirah Binti Azudin	MA11130	Power Comparison of Port Injection Gasoline and Direct Injection Engine
16	2009 – 2010	Mohd Fahmi Md Yusuf	MA07079	Design & Modification of Laptop Using DFMA (Design for Manufacturing Assembly)



17	2009 – 2010	Ismail Ab.Ilah	MA07008	A Numerical Study on the Effect of Gasoline-Hydrogen Fuel Blend on Engine Power
18	2009 – 2010	Amin Abidin Buran	MA07064	Design & Modification of DVD Player Using DFMA (Design for Manufacturing Assembly)
19	2009 – 2010	Noor Hizam Dzulkharnain Mohd Hassan	MA07036	A Numerical Study on the Effect of Gasoline-Hydrogen Fuel Blend on Engine Power
20	2009 – 2010*	Ruzaimi Zainon	ME07026	Optimisation of Surface Roughness in Milling using Partial Swarm Optimization (PSO)
21	2009 – 2010*	Mohd Faizal Aziz	ME05044	Optimisation of Tool Life in Milling using Radial Basis Function Network (RBFN)
22	2009 – 2010*	Syahrizad Muhamad	ME07040	Optimisation of Torque in Milling using Neural Network (NN)
23	2009 – 2010*	Mohd Aizuddin Mat Alwi	ME07017	Optimisation of Power in Milling using Support Vector Machine (SVM)
24	2009 – 2010*	Mohd Ezuwanizam Masral	ME08008	Optimisation of Cutting Force in Milling using Ant colony Optimisation (ACO)
25	2008 – 2009	Mohd Hasrul Naim Md Rahim	MH07005	Design and Develop A New Simple Auto Tire Nut Opener Powered By Internal Car Power
26	2008 – 2009	Asmahani Abd Kadir	MA06048	A Numerical Study on the Effect of Gasoline-Hydrogen Fuel Blend on Engine Power and Torque
27	2008 – 2009	Mohd Aswad Abd Wahab	MA06064	Effect of Heat Transfer for The Shock Tubes Through Finite Element Analysis
28	2008 – 2009	Mohd Aiman Ismail	MA06059	Experimental Study of the Laser Beam Cutting (LBC) Using Neural Network Analysis
29	2008 – 2009	Faris Suffian	MA06019	Experimental Study of the Heat Affected Zone (HAZ) and Surface Roughness by Laser Beam Cutting (LBC) on Acrylic and Aluminium Sheet.
30	2008 – 2009	Mohamad Yazid Idris	MA06042	Experimental Study of the Kerf Width and Taper on Laser Beam Cutting (LBC) on Acrylic Sheet
31	2008 – 2009*	Muhamad Nazumi Basuki	ME06063	Optimization of Surface Roughness and Cutting Force When Milling P20 Tool Steel
32	2008 – 2009*	Mohd Yazid Abu	ME06033	Prediction of Surface Roughness and Cutting Force When Milling P20 Tool Steel with Dry Cutting
33	2008 – 2009*	Afiq Zainorul Zainal	ME06040	Development of First and Second Order Tool Life Model When Machining P20 Tool Steel
34	2008 – 2009*	Mohd Zamri Ja'afar	ME07005	Development of Third Order Tool Life Model When Machining P20 Tool Steel with Dry Cutting
35	2008 – 2009*	P Vinoth S Parawakaran	ME06042	Aspects of Wear Mechanism of Carbide Tools When Machining P20 Tool Steel
36	2007 – 2008	Muhammad Aliff Abdul Manan	MA05085	Numerical Study on Fatigue Life of Spot Welded
37	2007 – 2008	Hasbullah Ishak	MA05008	Experimental Study on Fatigue Life of Spot Welded

38	2007 – 2008	Mohd Zaim Din	MA05024	Experimental Study on Fatigue Life of Spot Welded
39	2007 – 2008	Amir Iskandar Ariffin	MA05062	Design and Develop Auto Car Jacker Power by Internal Car Power
40	2007 – 2008	Shahrul Alam Yusoff	MA05040	Quality, Environment, Safety and Health Management System
41	2007 – 2008	Norsyuhada Binti Taib	MA05007	Study on Six Sigma Application in Industry To Increase Productivity
42	2007 – 2008	Mohamad Ridhwan Ruslan	MA05092	Failure Analysis of Drive Shafts
43	2007 – 2008	Ahmad Hafiz Zainuddin	MA06010	Development of Alternative Rotary Motion Force Converter for Electric Generator Uses
44	2007 – 2008	Md. Zaiful Mokhtar	ME06075	Development of Alternative Rotary Motion Force Converter for Force Generator Uses
45	2007 – 2008*	Mohd Arif bin Mokti	ME05046	A Surface Roughness Prediction Model for Laser Beam Cutting (LBC) on Acrylic Sheets
46	2007 – 2008*	Mohd. Fadyad Mohamad Sabri	ME04021	Simulation of Gear Using Matlab
47	2007 – 2008*	Hong Kim Soon	MA05004	Prediction of Tire Friction for Automotive Industry
48	2007 – 2008*	Muhamad Muhaimin Shaari	MA05035	Prediction of Tire Tread Deformation for Automotive Industry
49	2007 – 2008*	Mohd Fakhri Azizi Jusoh	MA05072	Design A New Concept of Recycle Trash Bin
50	2007 – 2008*	Abd Hadi Zakaria	ME04029	Vehicle Dynamic Analysis on in Campus Vehicle (IV) Through Simulation Tool
51	2007 – 2008*	Mohd Fauzani Mohd Nawil	MA04015	Simulation of Scavenged Two-Stroke Engine Using CFD
52	2006 – 2007	Tilakiswaran Samurgam	MC04023	Development of Battery Powered Tricycle
54	2006 – 2007	Mohd Muhaymin Ismail	MC04010	Development of PCB Cutting Using Pneumatic System
55	2006 – 2007	Wan Mohd Azman Wan Aziz	MA04014	Development of Smart Clamping Vise
56	2006 – 2007	Mohd Zaimatul Akmal Abdullah	MH04012	Mathematical Analysis on Two Stroke Engine Uniflow Scavenging System
57	2006 – 2007	Raymond B. Joseph	MA04017	Development of The Charging System for Advance Integrated Roller Transportation Unit (AIR-T)
58	2006 – 2007	Andi Rahman Nur Andi Rahim	MD04011	Design and Simulate Mixing of Pressurized CNG and Air Using a Mixing Device
59	2006 – 2007	Audi Sya Rizal	MD04010	Design A Compress Natural Gas Mixer for A 1600 cc Engine Air Requirement and Test the Air Flow by CFD Simulation
60	2006 – 2007	Shuhaizal Mohd Noor	MH04021	Failure Analysis of Drive Shafts
61	2006 – 2007	Mohd Dzulqarnain Shuhaimi	MD04018	Development of Compress Air Transportation (CAT) for Alternative Energy Utilization

No.	Academic Year	Subject	Name of Students	Title of Project
1	2015 - 2016	BHA4903 TEAM ORIENTED PROJECT STUDY	Syahril Ashraf bin Mohd Nor (HB12007), Muhammad Izzat bin Mat Diam (HB12014), Immanuel Georg Kost (HB15036), Siti Sabariah binti Muhammad (HB12017)	Experimental and Numerical Study on Efficiency of LPG Burner for Traditional Local Foundry Furnace Operation

## List of Publications

### A) International and National Journal

1. A.Vasu, F.Y. Hagos, R.Mamat, J.Kaur, **M.M.Noor**, 2019, The Effect of Thermal Cyclic Variation on the Thermophysical Property Degradation of Paraffin as a Phase Changing Energy Storage Material, *Applied Thermal Engineering*, 149, 22-33 (Elsevier, Scopus and WoS Indexed, IF 2.739).
2. M.Mukhtar N.A., F.Y.Hagos, **M.M.Noor**, R.Mamat, A.A.Abdullah, A.R.A.Aziz, 2019, Tri-Fuel Emulsion with Secondary Atomization Attributes for Greener CI Engine - Critical Review, *Renewable & Sustainable Energy Reviews*, 111 (2019) 490–506 (Elsevier, Scopus and WoS Indexed, IF9.184).
3. M.Norhafana, **M.M.Noor**, A.A.Hairuddin, F.Y.Hagos, S.I.Ayob, K.Kadirgama, D.Ramasamy, 2019, An Experimental Study of the Performance and Emission Characteristics of a Compression Ignition Engine Fueled with Palm Oil Based Biodiesel, *AIP Conf. Proceedings 2059*, 020036 (2019); <https://doi.org/10.1063/1.5085979> (Scopus Indexed).
4. E.Fradinata, S.Suthummanon, W.Suntiamorntut, **M.M.Noor**, 2019, Compare the Forecasting Method of Artificial Neural Network and Support Vector Regression Model to Measure the Bullwhip Effect in Supply Chain, *Journal of Mechanical Engineering & Sciences*, 13(2), 4816 - 4834, (WoS & Scopus indexed).
5. M.Mukhtar N.A., A.A.A. Aziz, F.Y.Hagos, **M.M.Noor**, K.Kadirgama, R.Mamat, A.A.Abdullah, 2019, The Influence of Formulation Ratio and Emulsifying Settings on Tri-fuel (Diesel-Ethanol-Biodiesel) Emulsions Properties, *Energies*, 12, 1708, pp 1-24 (MDPI, Scopus and WoS Indexed, IF 2.676)
6. K.Farhana, K.Kadirgama, M.M.Rahman, **M.M.Noor**, D.Ramasamy, M.Samykano, G.Najafi, N.A.C.Sidik, F.Tarlochan, 2019, Significance of Alumina in Nanofluid Technology, *Journal of Thermal Analysis and Calorimetry*, <https://doi.org/10.1007/s10973-019-08305-6>, pp 1-20 (Springer Nature, Scopus and WoS Indexed, IF 2.209).
7. K.Farhana, K.Kadirgama, M.M.Rahman, D.Ramasamy, **M.M.Noor**, G.Najafi, M.Samykano, A.S.F. Mahamude, 2018, Improvement in the Performance of Solar Collectors with Nanofluids – A State of the Art Review, *Nano-Structures & Nano-Objects*, Vol 18, Article 100276 (Elsevier, Scopus indexed, IF 0.632).
8. H.M.Tobib, A.A.Hairuddin, N.A.Aziz, **M.M.Noor**, J.Zulkiple, M.A.A.Mossa, 2019, An Experimental Investigation on the Combustion Behavior of an HCCI-DI Engine, *AIP Conf. Proceedings 2059*, 020010 (2019); <https://doi.org/10.1063/1.5085953> (Scopus Indexed).
9. M.Norhafana, **M.M.Noor**, P.M.Sharif, F.Y.Hagos, A.A.Hairuddin, K.Kadirgama, D.Ramasamy, M.M.Rahman, R.Alenezi, A.T.Hoang, 2019, A Review of the Performance and Emissions of Nano Additives in Diesel Fuelled Compression Ignition-Engines, *IOP: Materials Science and Engineering 469* (2019), 012035, doi:10.1088/1757-899X/469/1/012035 (Scopus Indexed).
10. K.Farhana, K.Kadirgama, **M.M.Noor**, M.M.Rahman, D.Ramasamy, A.S.F.Mahamude, CFD Modelling of Different Properties of Nanofluids in Header and Riser Tube of Flat Plate Solar Collector, *IOP: Materials Science and Engineering 469* (2019), 012041, doi:10.1088/1757-899X/469/1/012041 (Scopus Indexed).
11. A.A.Hairuddin, H.M.Tobib, F.Zulkifli, **M.M.Noor**, 2019, The Performance of a Single-Cylinder Diesel Engine Fuelled with Egusi Based Biodiesel, *IOP: Materials Science and Engineering 469* (2019), 012045, doi:10.1088/1757-899X/469/1/012045 (Scopus Indexed).

12. K.Mohanesen, D.Ramasamy, K.Kadirgama, **M.M.Noor**, M.M.Rahman, 2019, Flame Ionization Testing in An Internal Combustion Engine to Measure the Speed of The Flame for Gaseous Fuels, IOP: Materials Science and Engineering 469 (2019), 012075, doi:10.1088/1757-899X/469/1/012075(Scopus Indexed).
13. F.Benedict, K.Kadirgama, D.Ramasamy, **M.M.Noor**, M.A.R. Kumar, M.M.Rahman, Z.Ghazali, B.Sagmesh, 2019, Thermal Management of Vehicle Radiator Bynanocellulose with One-Dimensional Analysis, AIP Conf. Proceedings 2059, 020043 (2019); <https://doi.org/10.1063/1.5085986> (Scopus Indexed).
14. P.M.Sharif, A.A.Hairuddin, A.As'arry, K.A.M.Rezali, **M.M.Noor**, M.Norhafana, S.M.Shareef, 2019, Nano Gas Bubbles Dissolve in Gasoline Fuel and Its Influence on Engine Combustion Performance, IOP: Materials Science and Engineering 469 (2019), 012062, doi:10.1088/1757-899X/469/1/012062 (Scopus Indexed).
15. K.Farhana, A.S.F.Mahamude, K.Kadirgama, M.M.Rahman, **M.M.Noor**, D.Ramasamy, 2019, Internal Energy Analysis with Nanofluids in Header and Riser Tube of Flat Plate Solar Collector by CFD Modelling, IOP: Materials Science and Engineering 469 (2019), 012069, doi:10.1088/1757-899X/469/1/012069 (Scopus Indexed).
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197. M.A.A.Mossa, A.A.Hairuddin, **M.M.Noor**, A.A.Nuraini, H.M.Tobib, P.M.Sharif, J.Zulkiple, An Experimental Study to Investigate the HCCI-DI Fuelled with Used Cooking Oil Based Biodiesel, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P112.
198. M.A.A.Mossa, A.A.Hairuddin, **M.M.Noor**, A.A.Nuraini, A.H.Uzalan, H.M.Tobib, P.M.Sharif, An Experimental Study to Investigate Run of Exhaust Gas Recirculation on Diesel Engine Fuelled with Used Cooking Oil Based Biodiesel, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P111.
199. F.Inel, **M.M.Noor**, 3D Cable-Based Parallel Robot Simulation using PD Control, International Conference on Mechanical Engineering Research (ICMER) 2019, 30-31 Jul, Vistana Hotel, Kuantan, Malaysia, ICMER2019-P020.
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202. A.F.Kamaruzaman, A.R.Ismail, K.A.M.Daud, **M.M.Noor**, Fostering Creativity Through Makerspace Environment in the Project Based Learning and Design Thinking Methodology: A Review to The Industrial Design Perspective, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P122.
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205. K.Kesavarma, C.K.Kong, M.Samykano, K.Kadrigama, A.K.Pandey, S.Shahabuddin, W.S.W.Harun, M.M.Rahman, **M.M.Noor**, D.Ramasamy, Bending Properties of 3D Printed Coconut Wood-PLA Properties, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P125.
206. K.Farhana, K.Kadrigama, M.Samykano, **M.M.Noor**, M.M.Rahman, D.Ramasamy, A.S.F.Mahamude, A.K.Pandey, R.Saidur, Analysis of Non-Dimensional Numbers of Fluid Flowing Inside Tubes of Flat Plate Solar Collector, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P128.
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211. N.K.Makhtar, A.R.Ismail, K.A.M.Daud, **M.M.Noor**, D.Mohamad, Assessing Teachers' Perceptions of Safety Culture in Malaysian Education Sector, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P136.
212. P.M.Sharif, A.A.Hairuddin, A.As'arry, K.A.M.Rezali, **M.M.Noor**, M.A.A.Mossa, S.M.Shareef, Ambient Temperature Influence Gasoline Vehicle Fuel Consumption Performance On-Road Real World Driving Test, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P149.
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215. K.Mohanesen, R.Maria, D.Ramasamy, **M.M.Noor**, M.Samykano, K.Kadirgama, M.M.Rahman, Analysis of Alumina Particles Size and Shape Formation from Developed Planetary Ball Mill, Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2019, 19-22 Nov, Bukit Gambang Resort City, Kuantan, Pahang, MUCET2019-P156.

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218. Hasyuzariza M.Tobib, R.Hamzah, Muntasser A.A Mossa, A.Aziz Hairuddin, **M.M.Noor**, 2018, The performance of an HCCI-DI engine fuelled with palm oil- based biodiesel, International Postgraduate Conference on Mechanical Engineering (IPCME) 2018, 31 Oct, Faculty of Mechanical Engineering (UMP), Pekan, Malaysia, IPCME2018-P078.
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225. T.N. Le, M.K. Pham, A.T. Hoang, **M.M. Noor**, A.Rahman.M.S. Al-Tawaha, A.Razzaq.M.S. Al-Tawaha, 2018, Microstructural change for multi-pass welding between austenitic stainless steel and carbon steel, The 3rd International Conference on Manufacturing, Material and Metallurgical Engineering (ICMMME) 2018, Paper ID: M2008.
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233. M.Norhafana, **M.M.Noor**, A.A.Hairuddin, F.Y.Hagos, S.I.Ayob, K.Kadirgama, D.Ramasamy, M.M.Rahman, 2018, An Experimental Study of the Performance and Emission Characteristics of a

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234. F.Benedict, K.Kadirgama, D.Ramasamy, **M.M.Noor**, M.Samykano, M.M.Rahman, B.Sagmesh, Thermal Management of Vehicle Radiator Bynanocellulose with One-Dimensional Analysis, International Conference on Automotive Innovation Green Energy Vehicle (AIGEV) 2018, 25-26 July, Sri Manja Hotel, Kuantan, Pahang, Malaysia, Paper ID: AiGEV18-P056.
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240. M.Norazizi, A.K. Amirruddin, K.Kadirgama, **M.M.Noor**, D.Ramasamy, M.M.Rahman, S Sivarao, Z.Ghazalli, G.Najafi, Statistical Analysis on Tribology Behavior of Stainless Steels Surface in Aloe Vera Blended Lubricant, The 7th International Conference on Design and Concurrent Engineering (IDECON) 2018, 17-18 September, Kuching, Sarawak, Paper ID: IDECON18-024.
241. A.K.Amirruddin, K.Kadirgama, **M.M.Noor**, D.Ramasamy, Coefficient of Friction and Specific Wear Rate Prediction Model Using Response Surface Methodology for Waste Cooking Oil Blended Lubricant, The 7th International Conference on Design and Concurrent Engineering (IDECON) 2018, 17-18 September, Kuching, Sarawak, Paper ID: IDECON18-025.

#### **E) 2017 International and National Conference Papers**

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243. K.Kadirgama, **M.M.Noor**, D.Ramasamy, M.M.Rahman, Thermal and Rheological Properties of Oil Based Nanofluids for Car Radiator, 8th International Conference on Mechanical, Industrial, And Manufacturing Technologies (MIIMT) 2017, 2–7 Feb, Nelson Mandela Metropolitan University, Cape Town, South Africa (Invited - Keynote Paper).
244. D.Ramasamy, K.C. Hwa, A.K. Amirruddin, K.Kadirgama, **M.M.Noor**, M.M.Rahman, Improvement of Spark Ignition Engine for Operation with Natural Gas, International Conference on Fluids and Chemical Engineering (FluidsChE) 2017, 4-6 April, Kundasang, Sabah.
245. A.M. Hussein, Benedict Foo, K. Kadirgama, D. Ramasamy, **M.M. Noor**, M.M. Rahman, R. Mamat, Prediction of Friction Factor through Heated Tube under Turbulent Nanofluids Flow by CFD and ANFIS Models International Conference on Fluids and Chemical Engineering (FluidsChE) 2017, 4-6 April, Kundasang, Sabah.

246. M.S. Najiha, M.M. Rahman, K. Kadirgama, **M.M. Noor**, D. Ramasamy, 2016, Experimental Evaluation of Uncoated Carbide Insert in Machining of AA6061-T6 with TiO<sub>2</sub> based Nanofluid MQL Conditions, 5th International Conference on Nano and Materials Science (ICNMS), 19-21 Jan, San Diego, USA, Paper ID: ICNMS2017-P112.

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251. M.Hafizi, R.Mamat, A.Aziz, **M.M Noor**, A.Tamimi, Development of Strand Burner Test by Using Aluminized AP/HTPB, 4<sup>th</sup> Asia Conference on Mechanical and Materials Engineering (ACMME) 2016, 14-16 July, Kuala Lumpur, Malaysia, Paper ID: AC108E, pp 1-6.

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#### **N) 2007 International and National Conference Papers**

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#### **O) Book Chapter**



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- 1) Profesorial talk by Professor Rosli Bakar, Book title: Alternative for Tomorrow: Core Development in the Near Future, Chief Editor, ISBN: 978-967-5080-85-2, UMP Press, 2010
- 2) Book title: Seven Quality Control Tools, Final draft, UMP Press, 2015.
- 3) Book title: Database for Machining Advanced Materials, Final draft, UMP Press, 2010.
- 4) Program Book, UMP Cendekia Bitara Award Committee, 2009
- 5) Proceedings of 1<sup>st</sup> National Conference of Postgraduate Research (NCON-PGR) 2009, Institute Postgraduate studies, University Malaysia Pahang Publisher, Malaysia.
- 6) Vol. 1, International Journal of Automotive and Mechanical Engineering (IJAME), 01/06/2010, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
- 7) Proceedings of 1<sup>st</sup> National Conf. in Mechanical Eng. for Research & PG Studies, (NCMER) 2010, Faculty of Mechanical Engineering, University Malaysia Pahang Publisher, Malaysia.
- 8) Vol. 2, International Journal of Automotive and Mechanical Engineering (IJAME), 01/12/2010, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
- 9) Proceedings of 2<sup>nd</sup> National Conf. in Mechanical Eng. for Research & PG Studies, (NCMER) 2010, Faculty of Mechanical Engineering, University Malaysia Pahang Publisher, Malaysia
- 10) Vol. 3, International Journal of Automotive and Mechanical Engineering (IJAME), 01/06/2011, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
- 11) Vol. 4, International Journal of Automotive and Mechanical Engineering (IJAME), 01/12/2011, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
- 12) Vol. 5, International Journal of Automotive and Mechanical Engineering (IJAME), 01/06/2012, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
- 13) Vol. 6, International Journal of Automotive and Mechanical Engineering (IJAME), 01/12/2012, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
- 14) Proceedings of 2<sup>nd</sup> Malaysian Postgraduate Conference (MPC) 2012, Education Malaysia-Sydney (EMAS), Sydney, Australia.
- 15) Vol. 7, International Journal of Automotive and Mechanical Engineering (IJAME), 01/06/2013, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
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- 17) Vol. 8, International Journal of Automotive and Mechanical Engineering (IJAME), 01/12/2013, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
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- 20) Vol. 8, Journal of Mechanical Engineering & Sciences (JMES), 01/06/2015, Editor in Chief, Faculty of Mechanical Engineering, University Malaysia Pahang Publisher, (Scopus indexed).

- 21) Vol. 11, International Journal of Automotive and Mechanical Engineering (IJAME), 01/06/2015, Editor in Chief, Automotive Engineering Center, University Malaysia Pahang Publisher, (Scopus indexed).
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- 26) Vol. 10 Issue 2, Journal of Mechanical Engineering & Sciences (JMES), 01/09/2016, Editor in Chief, Faculty of Mechanical Engineering, University Malaysia Pahang Publisher, (Scopus indexed).
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3. Consultation for UMP 3rd International Conference Mechanical Engineering Research (ICMER2015), Expert Service and Publication for IJAME and JMES, RM9,000, Vol No. UCT170130, May 2017.
4. Consultation for UMP 3rd International Conference Mechanical Engineering Research (ICMER2015), Expert Service and Publication for IJAME and JMES, RM12,720, Vol No. UCT170107, January 2017.
5. Consultation for UMT 3rd International Conference of Ocean, Mechanical and Aerospace – Scientists and Engineers (OMASE), Expert Service and Publication for IJAME and JMES, RM12,720, Vol No. UCT160171, November 2016.
6. Consultation for UMP FKP, Expert Consultant for Linear Wear, RM318, Vol No. December 2016.
7. Consultation for UKM Researchers, Optimization of Environmental Factor by using Response Surface Method, RM2,845.00, Vol No. UIC100104, Project Assistant Leader, Dec 2009 - Feb 2010.
8. Consultation for Perusahaan Otomobil Nasional Bhd. (PROTON): Proton Exora & Pesona Value Analysis & Value Engineering (VAVE): Fuel Tank, Project Leader/Manager, Jul - Dec 2009.
9. Consultation for UIE-Solution Sdn Bhd: Finite Element Analysis for Storage Tank and Pressure Vessel Corrosion, RM12,900, Vol No. UIC080102, Project Leader and Main Researcher, Apr 2009.
10. Consultation for Huntsman Tioxide Sdn Bhd., Finite Element Study of Failure Analysis For 20 Meter Industrial Cooler Unit, Project Asst. Leader and Main Researcher, Vol No. UIC080102. RM19,100, Jan - Mar 2009.
11. Consultation: The Development of Fertilizer Mixer for Small Scale Mixing Process, Project Asst. Leader and Main Researcher, RM10,000, Vol No. UIC080102. Feb - Apr 2009.
12. Consultation for MMC Oil and Gas Sdn Bhd., Modal Analysis of Transport Pipe (Mode Shape), Vol No. UIC080102. Project Asst. Leader and Main Researcher, Jan - Feb 2009.
13. Consultation for Pengkalan Offshore Sdn Bhd. The Effect of Different Quenching Rate on the Steel Microstructure and Strength. Vol No. UIC080102. Nov - Dec 2008.
14. Consultation for Petronas: The Provision of Fitness for Service through Finite Element Analysis for V-5425 Flare Scrubber, thru UIE-Solution Sdn Bhd, RM9,900, Vol No. UIC080102, Project Leader and Main Researcher, Nov 2008,
15. Consultation for Petronas Carigali Angsi-B Crane B-7020 Structural Analysis. Project Manager and Main Researcher, thru RIA-Solution Sdn Bhd, RM12,000. Vol No. UIC080102, Petronas Carigali Sdn. Bhd. thru RIA Solution Sdn. Bhd. Apr-Dec 2008.
16. Consultation for MDE Solutions, Hydrogen Fuel Equipment Testing and Report, RM20,000, Vol No. UIC080102. Project Asst. Leader and Main Researcher, Nov - Dec 2008.
17. Industrial Technical Service, Engine Oil Booster & Fuel Booster Tablet Test for Amerseal Industrial Sdn Bhd. Main Researcher, Vol No. UIC080285-174. Apr - Aug 2008.
18. Industrial Technical Service, Compress Machine Design and Analysis for Sabutek Sdn Bhd. Researcher, Vol No. UIC080272, 2008.
19. Industrial Technical Service, Pallet Testing, for Global Green Pack Sdn Bhd Vol No: UIC080272. Main Researcher.
20. Sony (Tuner) External Sales Business Setup to Hitachi Electric Japan and Pioneer UK, 2006. Project Leader.
21. Sony Chemical Japan, Sony Headquarter Tokyo Business Consultancy for Japan-China Operation and strategy for business flow, product shipping and cash flow operation. 2005. Project Leader

22. Sony Bangi (Tuner) and Sony Thailand Engineering and Design support contract agreement thru triangle operation on engineering and design support (Bangi – Tokyo – Bangkok), Project Leader, 2005.
23. Sony Supplier Consultancy: Green Partnership Programme for United Kingdom Restriction of Hazardous Substances (RoHS), Department Leader and Lead Auditor, 2000-2006.
24. Sony Bangi (Tuner) and Hong Kong Towada contract agreement (OEM) for production in Guangzhou, China. Project Manager, 2000.

## List of Research / Project

### a) International Grant

1. International Grant, Qatar National Research Fund (QNRF), Project Title: Sintering Laser Machining for Hip Replacement Using Titanium Alloy, grant amount of RM 119,330 (Total Qatar grant of RM3.03 million), collaborators were Qatar University, Universiti Malaya, and Texas A&M (US), Grant number UIC161504, Project Member and Researcher, 01 Jun 2016 – 31 May 2019.
2. International Grant, The World Academy of Science (TWAS), Project Title: Nano-Structured Diamond and Silica Coatings on Co-Cr-Mo Substrate for Biomedical Applications, grant amount of RM41,000, Project Member and Researcher, Grant number TWAS15-397 RG/MSN/AS\_C – FR3240288959, Project Member and Researcher, 31 Mar 2016 – 30 Oct 2017.
3. International Grant, Qatar National Research Fund (QNRF), Project Title: Direct Metal Sintering Technology for the Manufacture of Fully Porous Functionally Grade Titanium Alloy Femoral Stems, grant amount of RM 71,370, collaborators were Qatar University, Universiti Malaya, and Texas A&M (US), Grant number UIC161505, Project Member and Researcher, 01 Jun 2016 – 31 May 2019.
4. International Research Grant, Project Title: Development of New Concept CNC Milling Machine, as Researcher for Collaboration Research with Mechanical Engineering Department, College of Engineering, Nelson Mandela Metropolitan University, Grant amount of RM 18,000,000, Project Member and Researcher, Jul 2008 – Jun 2011. (Status: Completed).
5. International Research Grant, Project Title: Accuracy Prediction of Peripheral Milling of Stainless Steel Thick Plates, as Researcher for Collaboration Research with Mechanical Engineering Department, University of Pretoria, South Africa, Grant amount of RM57,000, Project Member and Researcher, Aug 2008 – Jul 2009, (Status: Completed).

### b) Industrial Grant

6. Industrial Research Grant - CTRM, Project Title: Cutting Tools Optimization on Aeroplane Wings Composite Material Drilling, RM22,000, May 2016 Project Leader and Researcher, (Apply to CTRM Aero, Melaka).
7. Industrial Research Grant - Perodua, Project Title: Dissimilar Cam Profile for Airflow Improvement of Perodua Myvi CNG Fuel K3-VE Engine, Grant amount of RM20,000, Project Member and Researcher, Jul 2016, Project Member and Researcher, (Apply to Perodua).
8. Industrial Research Grant - Modenas and DHUAM, Project Title: Combustion analysis for MK175 Modenas Green Engine, Jul 2016, Project Member and Researcher, (Apply with DHUAM to Modenas).
9. External Research Grant, Project Title: Application of Six Sigma Methodology to Improve Hand Mounts Assembly Process, Master Thesis, Project Leader and Researcher, Nov 2002 – Oct 2004. (Status: Completed).

### c) External Grant

10. FRGS Research Grant: Nano-Diesel Blend Fuels in Ultra-Low Emission Homogeneous Charge Compression Ignition Engine, FRGS 2016-1-98780, Grant amount of RM 117,225, RDU160152, Jul 2016 – Jun 2018, Project Leader and Researcher.
11. FRGS Research Grant: Synthesis and Characterization of One Dimensional Modified Cobalt Nanowires for Nanoscale Mechanical Devices, FRGS 2016-1-141289, Grant amount of RM 68,178, July 2016 – Jun 2018, Project Member and Researcher.
12. FRGS Research Grant, Project Title: A Fundamental Study of Knocking Behaviour in a Homogeneous Charge Compression Ignition (HCCI) Engine Fuelled with Palm Oil and Egusi Based Biodiesel, FRGS, RM128,000, Researcher Oct 2015 – Sept 2018.
13. FRGS Research Grant, Project Title: Investigation of Micro-Explosion Phenomenon in the Combustion of Tri-fuel (Diesel, Biodiesel and Bio-ethanol) Emulsion in Compression Ignition Engines, Grant amount of RM120,000, Researcher, RDU150124, 15/Dec/2015-14/Dec/2017.
14. FRGS Research Grant, Project Title: Development of Fuel Testing System on Chassis Dynamometer for Compress Natural Gas Direct Injection Powered Vehicle”, RDU130134, RM103,000, Project Member and Researcher, 1/12/2013 - 30/11/2016.
15. FRGS Research Grant, Project Title: Development of Multiaxial Fatigue Modelling for Lightweight Automotive Suspension Components, RDU1303127, RM34,000, Project Member and Researcher, 25/12/2013 - 24/12/2016.
16. FRGS Research Grant, Project Title: Development and Characteristics of Waste Cooking Oil as Bio-lubricant and Nano-lubricant at High Temperature, RDU130129, RM59,000, Project Member and Researcher, 01/12/2013 - 31/05/2016.
17. FRGS Research Grant, Project Title: Engine Valve Seat Wear Study on Compressed Natural Gas (CNG) by Using Nano Powder, RDU140125, RM125,000, Project Member and Researcher, 01/07/2014 – 30/6/2017.
18. FRGS Research Grant, Project Title: Hybrid Optimization Model to Enhanced the Machinability of Titanium Alloys, Project Main Researcher, Grant Amount RM49,880, RDU100108, Sept2010 - Sept2012, (Status: Completed).
19. MOSTI Science Fund, Project Title: Development a Design Evaluation System Software for Home Appliances Remanufacturing, Main Researcher. Grant amount of RM183,750. RDU080502, MOSTI Project No. 03-01-16-SF0013. (Jul08-Dec09), (Status: Completed).
20. Science Fund Research Grant “The Performance of a Hydrogen Assisted Homogeneous Charge Compression Ignition (HCCI) Engine Fuelled with Biofuels”, UPM0009433, RM297,150, Project Member and Researcher, July 2015 – Jun 2017 (Apply to MOSTI).
21. PRGS Research Grant, Project Title: Prototype Development of Centrifugal Micro-Turbine Combustion Jet Engine, PRGS/2/2015/TK01/UMP/02/1, RM170,129, Project Member and Researcher, Jan 2016–Dec 2017 (Apply to MOHE).
22. FRGS Research Grant, Project Title: Fundamental Study of Ethanol-Diesel Blend Fuels in Ultra-Low Emission Homogeneous Charge Compression Ignition Engine”, FRGS 2015-1-98692, RM236,410, Project Leader and Researcher, July 2016 – Jun 2018, (Apply to MOHE).
23. MOSTI Science Fund Grant: Development of Hybrid Nano-Coolant for Automotive Radiator Cooling System, Grant amount of RM 232,463, Project ID: 03-01-16-SF0127-0216, July 2016 – Dec 2018, Project Leader, (Apply to MOSTI).
24. MOSTI Science Fund Grant: Fly Larvae Oil (FLO) biodiesel as an Alternative Novel Fuel: Experimental and Modelling Approach on a Diesel Engine, Grant amount of RM 267,024, Project ID: 02-01-16-SF0129-0216, Sept 2016 – Aug 2018, Project member, (Apply to MOSTI).
25. MOSTI Science Fund Grant: Characterization of High Blended Fuel under Standard Specifications for Implementation in Transportation Sector, Grant amount of RM 133,140, Project ID: 06-01-16-SF0169-0216, July 2016 – Dec 2018, Project member, (Apply to MOSTI).

26. MOSTI Science Fund Grant: Development of Liquefied Petroleum Gas (LPG) Engine Nano-Coated Valve, Grant amount of RM 481,800, Project ID: 03-01-16-SF0165-0216, Mar 2016 - July 2018, Project member, (Apply to MOSTI).
27. MOSTI Science Fund Grant: Development of Smart Solar Water Heater with Multilayer Absorber Solar Collector Operating with Nanofluids for Apartment Houses, Grant amount of RM 197,224, Project ID: 03-01-16-SF0168-0216, July 2016 – Nov 2018, Project member, (Apply to MOSTI).
28. MOSTI Science Fund Grant: Minimum Quantity Lubrication (MQL) / Environmental Friendly Technique for Machining of Hard Nickel Based Super Alloys Using Nanoparticle-Based Lubricants, Project ID: 03-01-16-SF0115, Grant amount: RM 212,300, Project ID: July 2016 – Nov 2018, Project member, (Apply to MOSTI).
29. PRGS Research Grant “Prototype Development of Eco-Nano-Coolant for Sustainable Green Machining” PRGS 2015-1-101296-102655, RM428,368, Researcher, July 2015 – Jun 2017 (Apply to MOE).
30. FRGS Research Grant: Investigation of Chemical Additives with Biodiesel-diesel Blended fuel on Diesel Engine Operation Characteristics, FRGS2016-1-126307, Grant amount of RM 197,840, Feb 2016 – Aug 2018, Project member, (Apply to MOHE).
31. FRGS Research Grant: Nano-cellulose for Automotive Applications, FRGS2016-1-140437, Grant amount of RM 118,270, Feb 2016 – Feb 2018, Project member, (Apply to MOHE).
32. FRGS Research Grant: Graphene as coolant additive for automotive radiator, FRGS 2016-1-141033, Grant amount of RM 140,552, Mar 2016 – Feb 2019, Project member, (Apply to MOHE).
33. FRGS Research Grant: A fully Integrated Process for Biodiesel Production from Microalgae, FRGS 2016-1-145290, Grant amount of RM 109,507, Feb 2016 – Jan 2019, Project member, (Apply to MOHE).
34. FRGS Research Grant: Nano-Cellulose Composite for Under the Hood Radiator End Tanks, FRGS 2016-1-140437, Grant amount of RM 149,085, Feb 2016 – Jan 2019, Project member, (Apply to MOHE).
35. FRGS Research Grant: Eco-Nano-Coolant for Environmental Friendly Manufacturing Cutting Process, FRGS 2016-1-146427 Grant amount of RM 110,205, Jul 2016 – Jun 2018, Project member, (Apply to MOHE).

#### **d) Internal Grant (UMP)**

36. UMP Research Grant, Project Title: An Auto-Ignition Study in Engine using HCCI and Carbon Nanotubes, RDU150351, Grant amount of RM40,000, Project Leader and Researcher, 25/06/2015 - 24/06/2017.
37. UMP Seed Money, Project Title: HCCI Engine Conversion from Diesel or Gasoline and Their Experimental to Evaluate the Performance”, RDU151103, RM5,500, Project Leader and Researcher, 15/04/2015 - 14/04/2016.
38. UMP Research Grant, Project Title: Improved Oxygenated Combustion Through Alcohol Additive Dilution Approach on A Diesel Engine for Performance and Emission Enhancement, RDU1603126, Grant amount of RM33,615, Project Member and Researcher, 05/10/2016 - 04/10/2018.
39. UMP Research Grant, Project Title: Fabrication of Transparent Nanowires Thin Film for Advanced Automotive Assemblies", Grant amount of RM 39,850, Project Member and Researcher, 15/07/2016 – 14/07/2018.
40. UMP Research Grant, Project Title: Investigate the Effect of Nano-lubricant for Enhanced the Vehicle Air-conditioning Efficiency", Grant amount of RM 25,500, RDU160306, Project Member and Researcher, 05/04/2016 – 04/04/2018.
41. UMP Research Grant, Project Title: Development of Semi-Active Car Absorber System", Grant amount of RM 25,000, RDU160307, Project Member and Researcher, 05/04/2016 – 04/04/2018.

42. UMP Research Grant, Project Title: Tribological Behaviour of Journal Bearing Material under Carbon Nanotube, RDU150373, RM39,816, Project Member and Researcher, 1/10/2015 – 30/09/2017.
43. UMP Research Grant, Project Title: Development of Fuel Testing System on Chassis Dynamometer for Compress Natural Gas Direct Injection Powered Vehicle, RDU130313, RM35,000, Project Leader and Researcher, 15/5/2013 - 30/11/2015.
44. UMP Research Grant, Project Title: The study of Nano-Refrigerant on Efficiency of Automotive Air-Conditioning, Grant amount of RM 39,700, Project Member and Researcher, 10/11/2015 – 09/11/2017.
45. UMP Research Grant, Project Title: Investigation of Dispersion, Stability, and Tribological Performance of Oil-Based Graphene and Copper Nanofluids, Grant amount of RM 37,500, RDU160352, Project Member and Researcher, 25/05/2016 – 24/05/2018.
46. UMP Research Grant, Project Title: Investigation of the Influence of Synthesis Parameter on the Template based Electrodeposited Ni Nanowires, Grant amount of RM 39,500, RDU160337, Project Member and Researcher, 25/05/2016 – 24/05/2018.
47. UMP Research Grant, Project Title: An Experimental Analysis of a HCCI Diesel Fuel Engine Using Copper Nanoparticles Blended Diesel Fuel, Grant amount of RM 28,000, RDU160319, Project Member and Researcher, 10/05/2016 – 09/05/2018.
48. UMP Research Grant, Project Title: Improved Oxygenated Combustion through Alcohol Additive Dilution Approach on a Diesel Engine for Performance and Emission Enhancement, Grant amount of RM 39,850, RDU16XXXX, Project Member and Researcher, 03/11/2015 – 02/11/2017.
49. UMP Research Grant, Project Title: Biodiesel-Diesel (Up to 45%) Fuel Characteristics on Homogeneous Charge Compression Ignition Engine, Grant amount of RM39,790, RDU1503101, Project Member and Researcher, 15/12/2015 – 14/12/2017.
50. UMP Research Grant, Project Title: Environmental Friendly Sustainable Biofuel for Diesel Engine Using Algae, Grant amount of RM 21,500, RDU160320, Project Member and Researcher, 10/05/2016 – 09/05/2018.
51. Internal Research Grant, Project Title: The Effect of Steam Injection on Power and Emission of Hybrid Air-Diesel Engine Using Steam Injector, RDU130313, RM40,000, Project Leader, 15/5/2013 - 14/11/2015.
52. UMP Seed Money, Project Title: HCCI Engine Conversion from Diesel or Gasoline and Their Experimental to Evaluate the Performance, RDU151103, RM5,500, Project Leader, 15/04/2015 - 14/04/2016.
53. UMP Research Grant, Project Title: Accuracy of Stainless Steel Thick Plates in Peripheral Machining, Project Leader & Researcher, Grant amount of RM 40,000. RDU090398, (Oct09-Sept10) (Status: Completed).
54. UMP Research Grant, Project Title: Modelling of Thermal Comfort and Productivity in Automotive Industry, Researcher, Grant amount of RM 37,500. RDU100351, (Aug10-Jul11) (Status: Completed).
55. UMP Research Grant, Project Title: Development of Micro-EDM with Micro Actuator Feed Control System, Researcher, Grant amount of RM 40,000 RDU090367 (May09-Apr11) (Status: Completed).
56. UMP Research Grant, Project Title: Optimization of Grinding Wheel Parameters with Artificial Intelligent, Researcher, Grant amount of RM 40,000. RDU090374 (May09-Apr11)
57. UMP Research Grant, Project Title: Experimental Investigation of Machining Performance of Near Dry and Powder Mixed Dielectric (PMD) Electrical Discharge Machining (EDM) on Titanium Alloys, Researcher, Grant amount of RM 40,000, RDU090394 (May09-Apr10) (Completed).
58. UMP Research Grant, Project Title: Design and Efficient Performance Appraisal of Hydrogen Fuelled Automobile Engines Combustion Chamber and Port Injector, Researcher, Grant amount of RM 40,000, RDU090397, (May09-Apr10), (Completed).



59. UMP Research Grant, Project Title: Heat Transfer Augmentation with Aluminium Oxide Nanofluid in Plain Tube and with Insert” as Researcher, Grant amount of RM 40,000. RDU0903100, (Oct09-Sept10) (Completed).
60. UMP Research Grant, Project Title: Development of Heat Transfer Techniques for Hydrogen Fuelled Internal Combustion Engine, Researcher, Grant amount of RM 40,000, RDU090393 (May09-Apr10) (Completed).
61. UMP Research Grant, Project Title: An Investigation of Wind Power Potential at Kuala Pahang, Pekan, Researcher, Grant amount of RM 40,000, RDU0903126, (Oct09-Sept10). (Completed).
62. UMP Research Grant, Project Title: Design and Develop Blow Mould Using Machining Optimization Parameters, Project Co-Leader and Researcher, RDU090202 (Aug09 - Jul10), ITEX Bronze Medal Award, 2009. (Completed).
63. UMP Research Grant, Project Title: Investigation of Refrigerator Performance using Experimental and Simulation Method, Project Co-Leader and Researcher. RDU090203 (Aug09 - Jul10), 2009. (Completed).
64. UMP Research Grant, Project Title: A Novel and Flexible Solar Car Kit for Educational Use” as Researcher, RDU090201 (Aug09 - Jul10), 2009. (Completed).
65. UMP Research Grant, Project Title: Design and Development of a Light Weight Lift System for Disable People, Researcher, Grant amount of RM 32,000. RDU090372 (May09-Oct10) (Completed).
66. UMP Research Grant, Project Title: Development of Micro Pump in Fuel Cell Application uses Micro Electro-Mechanical System (MEMs) Machining Method, Researcher, Grant amount of RM 37,500, RDU090366 (May09-Apr10) (Completed).
67. UMP Research Grant, Project Title: Development of Expert System for Prediction of Machining Parameters of Nickel Based Alloys, Researcher for Collaboration Research with Mechanical Engineering Department, College of Engineering, Universiti Tenaga Nasional, Grant amount of RM75,000, Jul08-Jun10. (Status: Completed).
68. UMP Research Grant, Project Title: Statistical and Artificial Intelligent Study to Determine the Effect of Milling Parameters on Cutting Force, Stress and Surface Roughness When Milling Aluminium and Nickel Super Alloy” as Project Main Researcher, Which Grant Amount of RM 15,400, RDU080324 (Jul08 - Jun09). (Status: Completed).
69. UMP Research Grant, Project Title: Analysis of Laser-Micromachining of Silicon for MEMs Components, Project Main Researcher, Which Grant Amount of RM 11,500, RDU080325 (Jul08 - Jun09). (Status: Completed).
70. UMP Research Grant, Project Title: Numerical Study on Fatigue Life of Spot Welded for Automotive Components, Project Leader and Researcher, Grant amount of RM 19,000. RDU070346 (Sept07-Aug08) (Status: Completed).
71. UMP Research Grant, Project Title: Development of Tribological / Wear Resistance of Stainless Steel by Plasma Nitriding, Project Co-leader and Researcher, Grant amount of RM 17,000. RDU070344 (Sept07-Aug08) (Status: Completed).
72. UMP Research Grant, Project Title: A Surface Roughness Prediction Model for Laser Beam Cutting (LBC) on Acrylic Sheets, Project Leader and Researcher. (Mar08-Sept08). 2008. (Status: Completed)
73. UMP Research Grant, Project Title: Experimental Study on Fatigue Life of Spot Welded High Strength Steel Sheet for Automotive Components, Project Co-leader and Researcher, Grant amount of RM19,000. RDU070347 (Sept07-Aug08) (Status: Completed).
74. UMP Research Grant, Project Title: Statistical and Experimental study to determine the effect of milling parameters on cutting force when milling Aluminium Alloy 6061-T6” as project main researcher, research without Grant (Apr08-Jun08). (Status: Completed)
75. UMP Research Grant, Project Title: Development of Laser Cutting and Engraving Machine Utilizing PC-NC controller, Grant amount of RM 78,000, Researcher. RDU070308 (Apr07-Mar08). (Status: Completed).

## e) Internal Student Grant

76. PGRS Research Grant, Project Title: Water Injection in CRDI Engine for Diesel-Biodiesel Fuel Efficiency, Che Ku Ihsan Bin Che Ku Abdul Satar, (PMM14003), Grant amount of RM 3,000, GRS160318, Project Leader and Researcher, 01/5/2016 - 30/4/2019.
77. PGRS Research Grant, Project Title: Combustion and Emissions Characteristics of Biodiesel-Alcohol Blend in a Common Rail Direct Injection (CRDI) Diesel Engine, Mohd Kamal Bin Kamarulzaman, (PMM14011), Grant amount of RM 4,000, GRS160360, Project Leader and Researcher, 01/5/2016 - 30/4/2019.
78. PGRS Research Grant, Project Title: Influence of Waster Cooking Oil as Bio-Nano Lubricant on Wear and Friction Behaviour of Aluminium against Stainless Steel, Maizatul Asnida Hassan (MMM14041), GRS150309, Project Leader and Researcher, 15/03/2015 - 14/03/2017.
79. PGRS Research Grant, Project Title: Combustion Characterization of Ethanol-Diesel Blend in Homogeneous Charge Compression Ignition Engine, Hasrulazmi Bin Hanafi (MMM15005), Grant amount of RM 3,000, GRS160345, Project Leader and Researcher, 01/5/2016 - 30/4/2018.
80. PGRS Research Grant, Project Title: Experimental and Prediction Study of Marine Diesel Engine Performance and Exhaust Emission Using Biodiesel Blends Fuel, Che Wan Mohd Noor Bin Che Wan Othman, (PMM14011), Grant amount of RM 3,500, GRS160359, Project Leader and Researcher, 01/5/2016 - 30/4/2019.
81. PGRS Research Grant, Project Title: Optimal Minimum Quality Lubricant (MQL) for Enhancing the Machinability of Super Alloy, GRS100331, Jul 2010 - Jun 2012 (Completed).

## Awards / Research Achievements

1. Cendekia Bitara Excellence Award 2018 for Journal Publication Category for Biodiesel as Alternative Fuel for Marine Diesel Engine Applications: A Review, Journal: Renewable & Sustainable Energy Reviews, Journal Impact Factor of 9.184 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
2. Cendekia Bitara Excellence Award 2018 for Journal Publication Category for Thermal Analysis of Cellulose Nanocrystal-ethylene Glycol Nanofluid Coolant, Journal: International Journal of Heat and Mass Transfer, Journal Impact Factor of 3.891 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
3. Cendekia Bitara Excellence Award 2018 for Journal Publication Category for Copper (II) Oxide Nanoparticles as Additive in Engine Oil to Increase the Durability of Piston-Liner Contact, Journal: Fuel, Journal Impact Factor of 4.908 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
4. Cendekia Bitara Merit Award - Diamond Award 2018 for Journal Publication Category for Effects of Low Proportion Palm Fatty Acids Methyl Ester Blends on the Performance and Combustion of Marine Diesel Engine, Journal: Journal of Bio based Materials and Bioenergy, Journal Impact Factor of 2.993 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
5. Cendekia Bitara Merit Award - Gold Award 2018 for Journal Publication Category for Oil Based Nanofluids for Enhancing Heat Transfer and Rheological Properties, Journal: Heat and Mass Transfer, Journal Impact Factor of 1.494 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
6. Cendekia Bitara Merit Award - Silver Award 2018 for Journal Publication Category for Effect of Cerbera manghas Biodiesel on Diesel Engine Performance, Journal: International Journal of Automotive and Mechanical Engineering, Journal Impact Factor of 0.580 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.

7. Cendekia Bitara Merit Award - Silver Award 2018 for Journal Publication Category for Comparative Analysis on Performance and Emission Characteristic of Diesel Engine Fueled With Heated Coconut Oil and Diesel Fuel, Journal: International Journal of Automotive and Mechanical Engineering, Journal Impact Factor of 0.580 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
8. Cendekia Bitara Merit Award - Silver Award 2018 for Journal Publication Category for Toward A Dynamic Analysis of Bipedal Robots Inspired By Human Leg Muscles, Journal: Journal of Mechanical Engineering and Sciences, Journal Impact Factor of 0.454 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
9. Cendekia Bitara Merit Award - Silver Award 2018 for Journal Publication Category for An Absorption Capacity Investigation of New Absorbent Based On Polyurethane Foams and Rice Straw for Oil Spill Cleanup, Journal: Petroleum Science and Technology, Journal Impact Factor of 0.376 (International), 12 April 2019, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
10. Research Award: Gold Medal Award & Best Award – Project title: Emission Reduction Through Micro-Explosion Occurrence in Tri-Fuel Combustion, Creation, Innovation, Technology & Research Exposition (CITREX) 2019, Researcher, 13-14 Feb, Conference Main Hall, UMP, Malaysia.
11. Research Award: Double Award which are Platinum Award & Gold Award – Project title: Green Engine Coolant (GEC): Cellulose Nanocrystals as Engine Coolant, Researcher, British Invention Show (BIS) 2018, 24-27 Oct, Barbican Exhibition Centre, London, United Kingdom.
12. Research Award: Silver Award – Project title: Novel Tool-Wear Mapping for Nano-Coolant Based Green Machining, Researcher, British Invention Show (BIS) 2018, 24-27 Oct, Barbican Exhibition Centre, London, United Kingdom.
13. Research Award: Gold Medal Award – Project Title: GEC: Nanocrystal as Engine Coolant, 29<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX18), Researcher, PWTC Kuala Lumpur, 10 – 12 May 2018.
14. Research Award: Gold Medal Award – Project Title: Environmental-Friendly Emulsified Tri-Fuel Emulsion, 29<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX18), Researcher, PWTC Kuala Lumpur, 10 – 12 May 2018.
15. Research Award: Gold Medal Award – Project title: Water–Ethylene Glycol Based Hybrid (TiO<sub>2</sub> and ZNO) Nanocoolant for Sustainable Green Machining, 28th International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX) 2017, Project Member and Researcher, 11 – 13 May 2017, Kuala Lumpur City Centre (KLCC), Malaysia.
16. Cendekia Bitara Excellence Award 2017 for Quality Category, Editor in Chief for International Journal of Automotive & Mechanical Engineering (IJAME), Recognition by Emerging Source Citation Index, Clarivate Analytic (Web of Science), USA (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
17. Cendekia Bitara Excellence Award 2017 for Research Product Category, Co-Researcher for Water-Ethylene Glycol based hybrid (TiO<sub>2</sub> and ZnO) nano-coolant sustainable green machining, Platinum Award Recognition by British Invention Show 2017 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
18. Cendekia Bitara Excellence Award 2017 for Quality Category, Editor in Chief for / Journal of Mechanical Engineering & Sciences (JMES), Recognition by Emerging Source Citation Index, Clarivate Analytic (Web of Science), USA (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
19. Cendekia Bitara Excellence Award 2017 for Research Product Category, Co-Researcher for Water-Ethylene Glycol based hybrid (TiO<sub>2</sub> and ZnO) nano-coolant sustainable green machining, Gold Award Recognition by British Invention Show 2017 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
20. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Nanoparticles suspended in ethylene glycol thermal properties and application: a review, Renewable & Sustainable Energy Reviews, Journal Impact Factor of 8.050 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.

21. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Using fusel oil as a blend in gasoline to improve spark ignition engine efficiency: a comprehensive review, Renewable & Sustainable Energy Reviews, Journal Impact Factor of 8.050 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
22. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Corrosion effect of phase change materials in solar thermal energy storage application, Renewable & Sustainable Energy Reviews, Journal Impact Factor of 8.050 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
23. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Calorific value enhancement of fusel oil by moisture removal and its effect on the performance and combustion of a spark ignition engine, Energy Conversion and Management, Journal Impact Factor of 5.589 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
24. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Force convection heat transfer of Al<sub>2</sub>O<sub>3</sub> nanofluids for different based ratio of water: Ethylene glycol mixture, Applied Thermal Engineering, Journal Impact Factor of 3.444 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
25. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Engine performance, exhaust emission and combustion analysis of a 4-stroke spark ignited engine using dual fuel injection, Fuel, Journal Impact Factor of 4.601 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
26. Cendekia Bitara Excellence Award 2017 for Journal Publication Category for Waste cooking oil blended with the engine oil for reduction of friction and wear on piston skirt, Fuel, Journal Impact Factor of 4.601 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
27. Cendekia Bitara Merit Silver Award 2017 for Journal Publication Category for Titanium oxide with nanocoolant for heat exchanger application, Journal of Mechanical Engineering and Sciences, Journal Impact Factor of 1.160 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
28. Cendekia Bitara Merit Silver Award 2017 for Journal Publication Category for Hybrid electric vehicle car body drag analysis using computational fluid dynamics, International Journal of Automotive and Mechanical Engineering, Journal Impact Factor of 0.446 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
29. Cendekia Bitara Merit Silver Award 2017 for Journal Publication Category for Heat transfer enhancement using hybrid nanoparticles in ethylene glycol through a horizontal heated tube, International Journal of Automotive and Mechanical Engineering, Journal Impact Factor of 0.446 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
30. Cendekia Bitara Merit Silver Award 2017 for Journal Publication Category for Experimental investigation on the performance of the TiO<sub>2</sub> and ZnO hybrid nanocoolant in ethylene glycol mixture towards AA6061-T6 machining, International Journal of Automotive and Mechanical Engineering, Journal Impact Factor of 0.446 (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
31. Cendekia Bitara Merit Award 2017 for Research Product Category for Novel lubricant compressor for automotive air conditioning system, Malaysia Technology Expo (MTE) 2017, Gold Award (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
32. Cendekia Bitara Merit Award 2017 for Research Product Category for Novel tool wear mapping for nano coolant based green machining process, The International Conference and Exposition on Invention (PECIPTA) 2017, Gold Award (International), 6 April 2018, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
33. Research Award: Gold Medal Award – Project Title: Novel Tool-Wear Mapping for Nano-Coolant Based Green Machining Process, International Exposition of Research and Development of Institute of Higher Learning (PECIPTA) 2017, Project Member and Researcher, 7-9 Oct, Kuala Terengganu, Malaysia.

34. Research Award: Bronze Medal Award – Project Title: Tri-Fuel Emulsion as Environmentally Friendly Alternative Fuel, International Exposition of Research and Development of Institute of Higher Learning (PECIPTA) 2017, Project Member and Researcher, 7-9 Oct, Kuala Terengganu, Malaysia.
35. Special Ministry of Higher Education (MOHE) 2016 Award – International Journal of Automotive & Mechanical Engineering (IJAME) as Founder & Editor in Chief, MOHE CREAM Journal Award, Nov 2016, Grant amount of RM8,500, Malaysia's Rising Star Award and CREAM Journal Award, Marriot Hotel, Putrajaya, Malaysia.
36. Special Ministry of Higher Education (MOHE) 2016 Award – Journal of Mechanical Engineering and Sciences (JMES) as Editor in Chief, MOHE CREAM Journal Award, Nov 2016, Grant amount of RM8,500, Malaysia's Rising Star Award and CREAM Journal Award, Marriot Hotel, Putrajaya, Malaysia.
37. Research Award: Gold Medal Award – Project title: Ultra-Low Emission Homogenous Charge Compression Ignition (HCCI) Combustion Model, International Trade Fair Ideas, Inventions and New Products (IENA) 2016, 26 – 30 Oct, Project Leader and Researcher, Nuremberg, Germany.
38. Research Award: Gold Medal Award – Project title: Dissimilar Cam Profile for Airflow Improvement in a CNG Engine, Korea Invention Promotion Association (KIPA), The Seoul International Invention Fair (SIIF) 2016, 1 – 4 December, Project Member and Researcher, Seoul, Korea.
39. Research Award: Gold Medal Award – Project title: Eco-Nano-Coolant for Manufacturing Cutting Process, Korea Invention Promotion Association (KIPA), The Seoul International Invention Fair (SIIF) 2016, 1 – 4 December, Project Member and Researcher, Seoul, Korea.
40. Cendekia Bitara Excellence Award 2016 for Journal Publication Category – Title: Micro Combined Heat and Power to Provide Heat and Electrical Power using Biomass and Gamma-Type Stirling Engine, Journal: Applied Thermal Engineering, Vol. 103, (Elsevier, Q1, Thomson ISI and Scopus Indexed, IF 2.739), CB Award on 02 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
41. Cendekia Bitara Silver Award 2016 for Journal Publication Category – Title: Numerical Investigation of In Cylinder Flow Characteristics of Hydrogen-Fuelled Internal Combustion Engine, Journal of Mechanical Engineering & Sciences (JMES), Impact Factor of 0.32, International, CB Award on 26 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
42. Cendekia Bitara Silver Award 2016 for Journal Publication Category – Title: Performance of a Domestic Refrigerator Using Nanoparticles Based Polyolester Oil Lubricant, Journal of Mechanical Engineering & Sciences (JMES), Impact Factor of 0.32, International, CB Award on 26 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
43. Cendekia Bitara Silver Award 2016 for Journal Publication Category – Title: The Application of Response Surface Methodology In The Investigation of The Tribological Behaviour of Palm Cooking Oil Blended In Engine Oil, Advance In Tribology, Impact Factor of 0.267, International, CB Award on 26 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
44. Cendekia Bitara Excellence Award 2016 for International Grant Category, Title: Direct Metal Laser Sintering Technology for The Manufacture of Fully Porous Functionally Graded Titanium Alloy Femoral Stems (Fabrication & Designing of Fully Porous Functionally Graded Titanium Alloy Femoral Stems), Fund Provider: Qatar National Research Fund, CB Award on 02 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
45. Cendekia Bitara Excellence Award 2016 for Research Product Category, Gold Medal Award – Project title: Ultra-Low Emission Homogenous Charge Compression Ignition (HCCI) Combustion Model, International Trade Fair Ideas, Inventions and New Products (IENA) 2016, 26 – 30 Oct, Project Leader and Researcher, Nuremberg, Germany, CB Award on 02 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
46. Cendekia Bitara Excellence Award 2016 for Research Product Category, Gold Medal Award – Project title: Dissimilar Cam Profile for Airflow Improvement in a CNG Engine, Korea Invention Promotion Association (KIPA), The Seoul International Invention Fair (SIIF) 2016, 1 – 4 December, Project Member and Researcher, Seoul, Korea, CB Award on 02 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.

47. Cendekia Bitara Excellence Award 2016 for Research Product Category, Gold Medal Award – Project title: Eco-Nano-Coolant for Manufacturing Cutting Process, Korea Invention Promotion Association (KIPA), The Seoul International Invention Fair (SIIF) 2016, 1 – 4 December, Project Member and Researcher, Seoul, Korea, CB Award on 02 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
48. Cendekia Bitara Excellence Award 2016 for Quality Category, Editor in Chief for International Journal of Automotive & Mechanical Engineering (IJAME), Recognition by Scopus, International, CB Award on 26 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
49. Cendekia Bitara Excellence Award 2016 for Quality Category, Editor in Chief for Journal of Mechanical Engineering & Sciences (JMES), Recognition by Scopus, International, CB Award on 26 May 2017, Zenith Hotel, Kuantan, Pahang, Malaysia.
50. Anugerah Perkhidmatan Cemerlang, (APC) Universiti Malaysia Pahang, (UMP Excellent Service Award) 2015.
51. Special Award of UMP 2015 Quality, Editor in Chief for International Journal of Automotive & Mechanical Engineering (IJAME), 6 July 2015, UMP, Malaysia.
52. Special Ministry of Higher Education (MOHE) 2015 Award – International Journal of Automotive & Mechanical Engineering (IJAME) as Founder & Editor in Chief, MOHE CREAM Journal Award, Sept 2015, Grant amount of RM12,500, Malaysia's Rising Star Award and CREAM Journal Award, Aseania Resort, Langkawi, Kedah.
53. Research Award: Gold Medal Award – Project title: Novel Combustion of n-heptane Fueled in Homogenous Charge Compression Ignition Engine, 27<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX) 2016, Project Leader and Researcher, 12 – 14 May 2016, Kuala Lumpur City Centre (KLCC), Malaysia.
54. Cendekia Bitara Excellence Award 2015 for Quality Award, Editor in Chief for International Journal of Automotive & Mechanical Engineering (IJAME), Recognition by ASEAN Citation Index (International), 20 May 2016, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
55. Cendekia Bitara Merit Award 2015 for Journal Publication, Effect on Zn Nano Materials on Grinding Surface Finishing, International Journal of Automotive & Mechanical Engineering (IJAME), 20 May 2016, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
56. Cendekia Bitara Merit Award 2015 for Journal Publication Category, Multi Objective Optimization of Minimum Quality Lubrication in End Milling of Aluminium Alloy AA6061T6, International Journal of Automotive & Mechanical Engineering (IJAME), 20 May 2016, UMP, Zenith Hotel, Kuantan, Pahang, Malaysia.
57. Research Award: Gold Medal Award – Project title: Dissimilar Cam Profile for Airflow Improvement in a CNG Engine, 27<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX) 2016, Project Member and Researcher, Kuala Lumpur City Centre (KLCC), 12 – 14 May 2016.
58. Research Award: Gold Medal Award – Project title: Eco-Nano-Coolant for Metal Cutting Process, Malaysia Technology Expo (MTE) 2016 Invention, Innovation Award, Researcher, 18 – 20 February 2016, Putra World Trade Centre, Kuala Lumpur, Malaysia
59. Research Award: Gold Medal Award – Project title: Dissimilar Cam Profile for Airflow Improvement in a CNG Engine, Creation, Innovation, Technology & Research Exposition (CITREX) 2016, Researcher, 7~8 March, Conference Main Hall, UMP, Malaysia.
60. Research Award: Silver Medal Award – Project title: Novel Combustion of n-heptane Fueled in Homogenous Charge Compression Ignition Engine, Creation, Innovation, Technology & Research Exposition (CITREX) 2016, Project Leader and Researcher, 7~8 March, Conference Main Hall, UMP, Malaysia.
61. Research Award: Silver Medal Award – Project title: The Design & Development of Smart Cutting Tool for Biomaterials, Creation, Innovation, Technology & Research Exposition (CITREX) 2016, Researcher, 7~8 March, Conference Main Hall, UMP, Malaysia.

62. Research Award: Bronze Medal Award – Project title: New car lubrication with waste cooking oil as an additive, Creation, Innovation, Technology & Research Exposition (CITREX) 2016, Researcher, 7~8 March, Conference Main Hall, UMP, Malaysia.
63. Research Award: Bronze Medal Award – Project title: New modified engine lubricant with hybrid nanoparticles, Creation, Innovation, Technology & Research Exposition (CITREX) 2016, Researcher, 7~8 March, Conference Main Hall, UMP, Malaysia.
64. Research Award: Gold Medal Award – Project title: Eco-Nano-Coolant for Manufacturing Cutting Process, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Asst. Leader and Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
65. Research Award, Silver Medal Award – Project title: Waste Cooking Oil as an Alternative Additive for Engine Lubricant, Advanced Innovation of Engineering Exhibition (AINEX) 2015, Project Member and Researcher, 18 August, The Zenith Hotel, Kuantan, UMP Automotive Engineering Center, Malaysia.
66. Research Award: Silver Medal Award – Project title: Advance Motorized Car Jack, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Leader, 9~10 March, Conference Main Hall, UMP, Malaysia.
67. Research Award: Silver Medal Award – Hybrid Intelligent Non-Conventional Machining for Biomedical Materials, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Asst. Leader and Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
68. Research Award: Silver Medal Award – Project title: Tribological Engine Wear Tester, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
69. Research Award: Silver Medal Award – Project title: A Novel Heat Transfer Model for Eco-Friendly Zero Emission Engine, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Asst. Leader and Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
70. Research Award: Silver Medal Award – Project title: Hybrid Nano-coolant, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
71. Research Award: Silver Medal Award – Project title: Hybrid Multi-Axial Fatigue Life Analyzer Based on Continuum Mechanics and Genetic Algorithm, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Asst. Leader and Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
72. Research Award: Bronze Medal Award – Project title: Environmental-Friendly Near-Dry Machining System for Aluminum Alloy Metal Removal Processes, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Asst. Leader and Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
73. Research Award: Bronze Medal Award – Project title: Waste Cooking Oil, Creation, Innovation, Technology & Research Exposition (CITREX) 2015, Project Researcher, 9~10 March, Conference Main Hall, UMP, Malaysia.
74. UMP Cendekia Bitara Merit Award 2014 for Journal Publication – Title: Effect of Air-Fuel Ratio on Temperature Distribution and Pollutants for Biogas MILD Combustion, IJAME, Vol. 10, 2014.
75. UMP Cendekia Bitara Merit Award 2014 for Journal Publication – Title: Air Fuel Ratio Study for the Mixture of Biogas and Hydrogen on MILD Combustion, IJAME, Vol 10, 2014.
76. UMP Cendekia Bitara Merit Award 2012 for Journal Publication – Title: Optimization of Surface Roughness in End Milling Using Potential Support Vector Machine Arabian Journal for Science and Engineering, Vol. 37 (8), 2012.
77. Cendekia Bitara Silver Award 2011 for Journal Publication Category – Title: Particle Swarm Optimisation Prediction Model for Surface Roughness, International Journal of the Physical Sciences, 2011, 6(13), Impact Factor of 0.540, International, CB Award on 29 Apr 2012, Zenith Hotel, Kuantan, Pahang, Malaysia.

78. UMP Cendekia Bitara Excellence Award 2011 for Journal Publication – Tool Life and Wear Mechanism When Machining Hastelloy C-22HS, Wear, Scopus, ISI Indexed and 1.635 Impact Factor, Apr 2012.
79. Anugerah Perkhidmatan Cemerlang, (APC) Universiti Malaysia Pahang, (UMP Excellent Service Award) 2008.
80. Anugerah Perkhidmatan Cemerlang, (Cert) Universiti Malaysia Pahang, (UMP Excellent Service Award) 2007.
81. Research Award: Bronze Medal Award – Title: Intelligent in-car Heat Extraction System (ICHES), 22<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX 2011), Researcher, PWTC Kuala Lumpur, 20-23 May 2011.
82. UMP Cendekia Bitara Merit Award for Patent – Car Jack Assembly and Method, PI20093259, 2009. Project Leader. May 2010.
83. UMP Cendekia Bitara Merit Award for Patent – Method and System for Enhancing Molding Machining Performance. PI20093258, 2009. Project Asst. Leader. May 2010.
84. UMP Cendekia Bitara Merit Award for Research Product: Car Jack Using Internal Car Power, Project Leader, (ITEX 2009), May 2010.
85. UMP Cendekia Bitara Merit Award for Research Product: Little Mantis: Short Mobility Electric Scooter Development, Project Member. (MTE 2009), May 2010.
86. UMP Cendekia Bitara Merit Award for Research Product: New Technique for Laser-Micromachining of MEMS Components, Project Asst. Leader, (PECIPTA 2009), May 2010.
87. UMP Cendekia Bitara Merit Award for Research Product: A New Machining Mould Algorithm based on Response Ant Colony (RACA), Project Asst. Leader, (ITEX 2009), May 2010.
88. UMP Cendekia Bitara Merit Award for Research Product: UMP Genetic Algorithms Software for Mould Machining, Project Asst. Leader, (MTE 2009), May 2010.
89. UMP Cendekia Bitara Merit Award for Patent – Method and System for Determining End of Life Strategy for Products, PI20095013, 2009. Project Asst. Leader.
90. UMP Cendekia Bitara Merit Award for Patent – Blow Mold Shell, PI20094318, 2009, Project Asst. Leader.
91. UMP Cendekia Bitara Merit Award for Patent – Method of Laser Micromachining MEMS Components, PI20094507, 2009, Project Asst. Leader.
92. Research Award: Bronze – Project Title: Support Vector Machine Learning Method to Predict Recycling Strategy for Electronic Equipment, Malaysia Technology Expo (MTE) 2010, Project A. Leader and Main Researcher, 4-6 Feb, PWTC, Kuala Lumpur.
93. Research Award: Silver Medal Award – Title: Multi-Axial Fixing Elements (MAFE) an Innovative Product to Effectively Manage Most Clinically Unstable Situation of the Bone, Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning, (PECIPTA) 2009, 8-10 Oct KLCC, Kuala Lumpur, Malaysia.
94. Research Award: Bronze Medal Award – Title: New Technique for Laser-Micromachining of MEMS Components, Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning, (PECIPTA) 2009, 8-10 Oct KLCC, Kuala Lumpur, Malaysia.
95. Research Award: Bronze Medal Award – Title: Car Jack Using Internal Car Power, 20<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX09), Project Leader and Researcher, PWTC Kuala Lumpur, 15-17 May 2009.
96. UMP Cendekia Bitara Merit Award Journal Publication – Cutting Force Prediction Model by FEA and RSM when Machining Hastelloy C-22HS with 90° Holder, Journal of Science and Industrial Research, Scopus, ISI Indexed and 0.43 Impact Factor
97. UMP Cendekia Bitara Merit Award for Research Product - Design and Develop Blow Mould Using Machining Optimization Parameters - International Invention, Innovation and Technology Exhibition (ITEX08).



98. UMP Cendekia Bitara Merit Award Journal Publication – Prediction of Tool Life by Statistical Method in End - Milling Operation, Scientific Research and Essay (Scopus and ISI Indexed)
99. UMP Cendekia Bitara Merit Award Journal Publication – Fatigue Life Prediction of Spot-Welded Structures: A Finite Element Analysis Approach, European Journal of Scientific Research (Scopus indexed)
100. UMP Cendekia Bitara Merit Award Journal Publication – Finite Element Based Fatigue Life Prediction of Cylinder Head for Two-Stroke Linear Engine Using tress-Life Approach, Journal of Applied Science (Scopus and ISI Indexed)
101. UMP Cendekia Bitara Merit Award Journal Publication – Finite Element Based Fatigue Life Prediction of a New Free Piston Engine Mounting, Research Journal of Applied Science (Scopus indexed)
102. Research Recognition: MUCEET 2009 Exhibition – Title: Car Jack Using Internal Car Power, Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET) 2009, Project Leader and Researcher, 20-22Jun, Ms Garden, Kuantan, Pahang, Malaysia.
103. Research Award: Silver – Title: A New Machining Mould Algorithm based on Response Ant Colony (RACA), 20<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX09), Project A. Leader and Researcher, PWTC Kuala Lumpur, 15-17 May 2009.
104. Research Award: Silve Medal Award r – Title: Spring Activated Pole (SAP), 20<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX) 2009, Project A. Leader and Researcher, PWTC Kuala Lumpur, 15-17 May 2009.
105. Research Award: Bronze Medal Award – Title: Zapplt (Palm Fruit Cutter), Geneva Convention and Exhibition (Geneva09), Project A. Leader and Researcher, 15–17 Apr 2009.
106. Research Award: Gold – Project Title: Zapplt, Motorized Cutter for Palm Fruit Harvesting, Malaysia Technology Expo (MTE) 2009, Project A. Leader and Researcher, 19-21 Feb, PWTC, Kuala Lumpur.
107. Research Award: Bronze Medal Award – Project Title: UMP Genetic Algorithms Software for Mould Machining, Malaysia Technology Expo (MTE) 2009, Project A. Leader and Researcher, 19-21 Feb, PWTC, Kuala Lumpur.
108. Research Award: Bronze Medal Award – Project Title: Little Mantis: Short Mobility Electric Scooter Development, Malaysia Technology Expo (MTE) 2009, Researcher, 19-21 Feb, PWTC, Kuala Lumpur.
109. Research Award: Bronze Medal Award – Project Title: Design and Development of Blow Mould using Machining Optimization Parameters. 19<sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX) 2008, Project A. Leader and Researcher, PWTC Kuala Lumpur, 9<sup>th</sup> – 11<sup>th</sup> May 2008.
110. Research Award: Gold Medal Award – Project Title: Efficient Incremental Curve Interpolator for CNC Application. International Exhibition Ideas-Inventions-Novelties (IENA07), Researcher, Nuremberg, Germany 2007.
111. Research Award: Silver Medal Award – Project Title: Open Architecture PC-NC for Laser Cutting Application. Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning 2007 (PECIPTA) 2007, Project A. Leader and Researcher, KLCC, 2007.
112. Sony President Award for Sony Six Sigma Project – Quality Improvement Project, Project Leader, Sony Corporation, 2006.
113. Sony Best Overall Management Award – China OEM Production Strategy and Control, Project Leader, Sony Corporation, 2005.
114. Sony Best Management Award – Project 8, SOEM Profit Up, Project Leader, Sony Corporation, 2005.
115. Sony President Award for Sony Six Sigma Project – Productivity Up Project, Project Leader, Sony Corporation, 2005.
116. Sony Managing Director Award for Sony Six Sigma Project – Manufacturing Cost Reduction (MFC) Project, Project Leader, Sony Corporation. 2004.

117. Sony Managing Director Award for Sony Six Sigma Project – Raw Material CDVA (Cost Down and Value Analysis), Project Leader, Sony Corporation. 2004.
118. Sony President Award for Soldering Quality Improvement Project, Project Leader, Sony Corporation, 2003.
119. Three Star Award (Best Award) in National Conferences for Quality Control Circle (QCC) Project Quality Improvement for Main Assembly Line Defect, National Productivity Cooperation (NPC), 1998.
120. Three Star Award (Best Award) in National Conferences for Quality Control Circle (QCC) Project, Productivity Improvement for Surface Mount Technology Process Surface Mount Line 1, National Productivity Cooperation (NPC), 1998.
121. Two Star Award in National Conferences for Quality Control Circle (QCC) Project, Quality and Productivity Improvement thru Surface Mount Technology Maintenance, National Productivity Cooperation (NPC), 1997.
122. Many more other NPC Award for National & Regional Conferences for Quality Control Circle (QCC) Project, Quality and Productivity Improvement, National Productivity Cooperation (NPC), 1996-1998.

### List of Patent

1. Heat Transfer Nanofluids, PI2011002027, (Status: Application), 2011, Patent Project Member, Project Leader: K.V.Sharma,
2. Nano-Wood Composites, PI2010003174, (Status: Application), 2010, Project Member.
3. A Hybrid Car, PI2010002172, (Status: Application), 2010, Project Member.
4. Car Jack Assembly and Method, PI 20093259, 2009. Project Leader.
5. Method and System for Enhancing Moulding Machining Performance. PI 20093258, 2009. Project Asst. Leader.
6. Method and System for Determining End of Life Strategy for Products, PI 20095013, 2009. Project Asst. Leader.
7. Blow Mould Shell, (PI20094318), MY-143846-A, 2012 Project Asst. Leader.
8. Method of Laser Micromachining MEMS Components, PI 20094507, 2009, Project Asst. Leader.
9. A Hybrid Car, PI 2010002172, Filing Date: 10/5/2010. Project Member.
10. New Optimization Technique "Response Ant Colony Algorithm (RACA)", (Status: Application), 2009. Project Member.
11. New Algorithm on Dry Cutting of Aerospace Material based on Response – Partial Swarm Optimization (R-PSO). (Status: Application), 2009. Project Member.

### List of Course / Conference / Workshop / Technical Collaboration Attended

Date	Program	Status
27 May 2019	Training on UMP System Intervensi Academic Pelajar (SIAP) for Postgraduate Students, Tun Fatimah Training Room, UMP Gambang.	Trainer & Speaker
25 May 2019	Bicara Exclusif: Keusahawan oleh Tuan Hj. Amirul (UMP Advanced) dan Nota Pengaruh (En. Azli Syukri), UMP Library, Gambang Campus.	Participant
1-2 April 2019	Workshop on Writing High Impact Factor Journal Paper, Rocano Hotel Kuantan, Pahang.	Participant

1 Feb 2019	Penilaian Program STEM 2018 Untuk Program Mentor Mentee Awards, Industrial & Community Network (ICoN), UMP Gambang.	Participant
29 Jan & 2 Feb 2019	Workshop Book Evaluation for MAPIM & National Book Award, UMP Gambang.	Reviewer & Workshop Leader
24 Jan 2019	IJAME Journal Reviewing Workshop, Ancasa Royale, Pekan, Pahang.	Participant
23 Jan 2019	Training, Introduction to Writing Research Book, Mr. Azli & Ms Athirah, UMP Press.	Participant
22 Jan 2019	UMP PAKAD Public Lecture: Peranan, Cabaran dan Peluang Staf Akademik dalam era IR4.0, Dato' Sri Ibrahim, Chairman LPU UMP.	Participant
22 Jan 2019	2 <sup>nd</sup> Public Lecture, Challenges of Sustainable environment Development and Role of University, UCYP Conference Room, Prof. Emiritus Dato; Dr. Ahmad Haji Zainuddin, UCYP Vice Chancellor.	Participant
8 Jan 2019	Workshop on 2019 KPI for UMP Press, UMP Gambang Campus.	Leader
23 Nov 2018	Workshop on Strategic Plan 2019 for UMP Penerbit, UMP Gambang Campus.	Leader
19 Nov 2018	Workshop for UMP Student Development Master Plan, Session 3: Review & Strategic Planning, UMP Gambang	Speaker & Workshop Leader
15 Nov 2018	Training on UMP System Intervensi Academic Pelajar (SIAP) for Postgraduate Students, Tun Fatimah Training Room, UMP Gambang.	Trainer & Speaker
31 Oct 2018	International Postgraduate Conference on Mechanical Engineering (IPCME) 2018, Faculty of Mechanical Engineering (UMP), Pekan, Malaysia	Invited VIP, Participant
29 Oct 2018	Final for Pidato Education Minister Award, UNITEN, Bangi, Officiate by Minister YB Dr. Maszlee Malik.	Invited Guest
26 Oct 2018	Pitch Your Brilliant Ideas Competition, Universiti Malaysia Pahang Gambang Campus.	Competition Lead Judge
18 Oct 2018	Workshop for UMP Student Development, Character Building Session 2: Brainstorming & Module Development, UMP Gambang.	Speaker & Workshop Leader
2 Oct 2018	Workshop for UMP Student Development, Character Building Session 1: Openinig & Brainstorming, UMP Gambang.	Speaker & Workshop Leader
19-20 Sep 2017	UMP TVET Exposition 2017, Sport Complex, Universiti Malaysia Pahang, Gambang Campus, Kuantan, Pahang, Malaysia.	Invention Judge
27 Jul 2017	Seminar of Redesign Higher Education, From the Perspective of Industrial 4.0 by Prof. Dato' Mohamad Amin Embi, UMP Gambang, Malaysia	Participant
27-30 Oct 2016	The iENA Nuremberg - International Trade Fair Ideas - Inventions - New Products, Nuremberg, Bavaria, German.	Inventor

18 Oct 2016	Invited Keynote Speaker, International Research Conference and Innovation Exhibition (IRCIE) 2016, 18 - 20 Oct, Persada Johor International Convention Center, Johor Bahru, Johor.	Speaker and Invention Jury
14 Oct 2016	Discussion with Steinbosh Company, HsKA, Karlsruhe, German.	Participant
28 Sep 2016	German Program Board of Studies (BoS) Dual Degree UMP-HsKA, JW Marriot, Kuala Lumpur, Malaysia	Organiser Chair
26 Sep 2016	International Business Engineering Conference (IBEC) 2016, JW Marriot, Kuala Lumpur, Malaysia	Participant
29 Aug 2016	Mesyuarat BoE Program Dwi Ijazah UMP-HsKA, UMP Pekan, Pahang, Malaysia.	Chairman
22 Aug 2016	Seminar Penyelidikan Automotive Zon Timur (SPAZT) 2016, Politeknik Sultan Mizan Zainal Abidin (PSMZA), Dungun, Trengganu, Malaysia.	Participant
17-18 Aug 2016	FKM Academic Workshop, Faculty of Mechanical Engineering, UMP Pekan, Pahang, Malaysia.	AERG Group Leader
12 Aug 2016	Malaysian Technical University Network (MTUN) Journal Evaluation, Journal of Engineering and Technology (JET) for Scopus Indexed Evaluation and Review, Universiti Teknikal Malaysia Melaka.	Facilitator
2-3 Aug 2016	International Conference on Automotive Innovation and Green Energy Vehicle (AiGEV2016), at Malaysian Automotive Institute (MAI), Cyberjaya, Malaysia.	Technical Committee and Chairperson
21 Jun 2016	EndNote Introductory Workshop, Computer Laboratory, UMP Gambang Library, Kuantan, Pahang.	Lead Trainer
1-6 Jun 2016	UAE Dubai International Education Exposition, Crown Plaza Hotel, Deira, Dubai, United Arab Emirates.	Participant, Group Leader
27 May 2016	Integrated Design Project Exhibition and Competition (IDPEC) 2016, Faculty of Mechanical Engineering, UMP, Pekan	Chairman and Judge
20 Apr 2016	German Higher Education Delegation Talk on Digital Media on Education Technology, Universiti Malaya, Kuala Lumpur.	Participant
19 Apr 2016	Editor with Elsevier Workshop, Malaysian Citation Centre (MCC), Ministry of Higher Education (MOHE), Putrajaya	Participant, Group Leader
14-16 Apr 2016	IJAME / JMES Journal Quality and Editing Workshop, Homestay, Kuantan, Pahang.	Leader
12 Apr 2016	Automotive Engineering Centre Science Fund Evaluation Workshop, Prof. Dr. Uda Hashim, Ancasa Royale Hotel, Pekan, Pahang.	Presenter
07 Apr 2016	Bengkel Lonjakan Strategik 1: Keunggulan Akademik Pelan Startegik UMP 2016-2020, Dewan Banquet, Bangunan Tun Abdul Razak, UMP Pekan.	Presenter
04 Apr 2016	FKM External Examiner Evaluation for German Automotive Engineering Programme (Prof. Dr. Zamri UNITEN), UMP, Pekan.	Participant
01 Apr 2016	Research Collaboration Meeting at Yanmar Research Centre, Kota Kinabalu, Sabah.	UMP Leader
01 Apr 2016	UMP German Engineering Degree Exhibition, MARA Education Carnival, Kota Kinabalu, 1Borneo Mall, Sabah.	Exhibitor

31 Mar 2016	Foundation Motivational Talk and German Degree of Engineering Talk, Institute Sinaran Main Hall, Kota Kinabalu, Sabah	Speaker
30 Mar 2016	Seminar on FRGS Grant Application, Politeknik Kota Kinabalu (PKK), Sabah.	Speaker
30 Mar 2016	Motivational Talk and German Degree of Engineering Talk, Maktab Sabah Hall, Kota Kinabalu, Sabah	Speaker
29 Mar 2016	German Program Master of Engineering Talk, Yayasan Sabah Technical Colleague (KTYS), Kota Kinabalu, Sabah.	Speaker
26 – 27 Mar 2016	UMP German Engineering Degree Exhibition, MARA Education Carnival, Kuantan, Mega Mall, Pahang.	Exhibitor
22 Mar 2016	FKM Industry Advisory Panel (IAP) meeting for German Automotive Engineering Programme, (Norhayati VolkWagen, Azhan Isuzu and Syukri Omarsson) UMP Pekan.	Participant
16 Mar 2016	UMP Management: Pay for Performance Workshop, Ancasa Royale Hotel, Pekan, Pahang.	Participant
28 Feb 2016	Foundation Motivational Talk and German Degree of Engineering. Talk, Pusat Matrikulasi Hall, Wilayah Persekutuan Labuan.	Speaker
27 Feb 2016	High School Motivational Talk and German Degree Engineering Talk, Dewan MRSM Kota Kinabalu, Sabah.	Speaker
25 – 26 Feb 2016	UMP German Engineering Degree Day in Kota Kinabalu, Hotel Dorsett, Sabah.	Program Head
22-24 Jan 2016	IJAME / JMES Journal Quality and Editing Workshop, Homestay, Kuantan, Pahang.	Leader
14-16 Dec 2015	Engineering Accreditation Counsel (EAC) New Panel Evaluators Workshop by Engineering Accreditation Department (EAD), Board of Engineers, Malaysia, led trainer by Professor Ir. Dato' Dr. Wan Hamidon.	Participant
11 Dec 2015	Integrated Design Project Exhibition and Competition (IDPEC) 2015, Faculty of Mechanical Engineering, UMP, Pekan	Chairman and Judge
9 Dec 2015	Research Collaboration Meeting at ADTEC Taiping, Ceramic Cutting Tools Research Group, Dr. Takashima (Toyota R&D Group).	Leader
8 Dec 2015	Research Collaboration Meeting at Universiti Teknologi Petronas with UTP Energy and Nano Research Group (Professor Dr. K.V.Sharma).	Participant
7 Dec 2015	Quality Engineering Project Exhibition and Competition (QEPEC) 2015, Faculty of Mechanical Engineering, UMP, Pekan	Chairman and Judge
3-4 Dec 2015	Journal Quality and Reviewing Meeting, Rompin Beach Resort, Rompin, Pahang.	Chairman and Reviewer
30 Nov 2015	Seminar on Advanced Engine & Fuel Technology 2015 – Spray & Visualization, Center for Automotive Research & Electric Mobility, Universiti Teknologi Petronas (UTP CAREM), Perak.	Participant
26 Nov 2015	Bengkel Audit Dalaman (Internal Quality Auditing), Kementerian Sains, Teknologi & Inovasi (MOSTI), Thursday, Kuala Lumpur, Malaysia	Participant
5-7 Nov 2015	IJAME / JMES Journal Quality and Editing Workshop, Homestay, Kuantan, Pahang.	Leader

3-4 Sept 2015	National Conference on the Publication of High-Impact Journal, CREAM Journal Award and Malaysia Rising Star Award, Aseania Resort, Langkawi, Kedah	Participant / Award Winner
21 Aug 2015	Workshop Teaching Plan, Course Outcomes and Question Development, by AP Ir. Dr. Rosli Abdullah, Faculty of Mechanical Engineering, Universiti Malaysia Pahang, Pekan, Pahang.	Participant
19-20 Aug 2015	National Symposium on Additive Manufacturing (NSAM) 2015, M.S. Garden Hotel Kuantan, Pahang, Malaysia.	Participant / Presenter / Plenary Session Moderator
18-19 Aug 2015	International Conference on Mechanical Engineering Research (ICMER), Zenith Hotel, Kuantan, Pahang, Malaysia	Presenter, Sub Comm. Chair
7-9 Aug 2015	IJAME / JMES Journal Quality and Editing Workshop, Suria Resort Cherating, Kuantan, Pahang.	Leader
05-06 Aug 2015	Bengkel Pembentangan & Penilaian Kertas Kerja Penyelidikan Siri 1/2015 (FRGS / RAGS), FKM Meeting Room, Pekan Pahang.	Proposal Evaluator
04 Aug 2015	Road Show Taklimat Dan Pendaftaran Penulis / Penilai Jurnal Malaysia Technical University Network (MTUN), UMP Library Seminar Room, Kuantan, Paahng.	Participant
22-24 May 2015	Auto-Gegaria 2015 Invention Show and Exhibition, Tribology Wear Tester, Water Based Nano Coolant for Manufacturing and Automotive, Valve Tester and Proton Saga UMP Electric Vehicle.	Exhibitor
20 May 2015	Collaboration project discussion at ADTEC Taiping, Director: Ir. Halim.	Participant, Presenter
19 May 2015	Collaboration project discussion at KKTU Balik Pulau, Pulau Pinang.	Participant, Presenter
15 May 2015	Statistical software, Minitab Training, FKM, UMP, Pekan	Trainer
21 Apr 2015	Nano-coolant at Knowledge Transfer Program (KTP) Exhibition, UMP Exhibition Hall, Kuantan, Pahang.	Exhibitor
21 Apr 2015	Bone Project discussion at IIUM Kuantan, Pahang.	Participant
18-19 Apr 2015	Jury for International Engineering Invention & Innovation Exhibition (i-ENVEX 2015), UniMAP Exhibition Hall, Perlis.	Judge / Jury
10-12 Apr 2015	Bengkel Pelan Strategik dan Hala Tuju FKM 2015, Century Pine Resort, Cameron Highland, Pahang.	Participant, Presenter
28-29 Mar 2015	Accreditation and Assessment Workshop, by Prof. Megat Johari, MySET and MJIT-UTM, Hotel Marriot, Putra Jaya.	Participant
05 Mar 2015	Seminar Route to Professional Engineers, by Ir. Hasril Hasini (UNITEN), Sri Manja Boutique Hotel, Kuantan, Pahang.	Participant
29 Jan 2015	Bengkel Perkongsian Ilmu Pengurusan Editorial Journal, Dewan Tun Fatimah, UMP Gambang, AP Dr. Nor Fariza Mohd Nor	Participant
27 Jan 2015	Perkongsian Kejayaan Research Management UTM, by Prof. Dr. Ruzairi, Vistana Hotel, Kuantan, Pahang.	Participant
22 Jan 2015	UMP Latex Training, AEC, UMP Pekan, M.M.Noor and Dr. Hafizi	Trainer

8 Jan 2015	UMP KALAM Training, FKM Pekan, Dr. Azhar Kamaluddin	Participant
19-21 Nov 2014	Assessor Training for Programme Accreditation, Petaling Jaya, Dato' Prof. Dr. Rujhan Mustafa, Prof. Ir. Sr. Dr. Suhaimi UITM.	Participant
3 Apr 2013	ANSYS Training from Leap (ANSYS Supplier), Prof. David Fletcher, University of Southern Queensland (USQ), Australia	Participant
13 Mar 2013	Mathematical Modelling with MATLAB, Rydges, Cnr Grey & Glenelg Streets, Brisbane, QLD, Dr. Abhaya Parthy	Participant
12 Dec 2012	Dissertation Writing Workshop, University of Southern Queensland (USQ), Australia	Participant
25 Oct 2012	Research Seminar by Dr. Andrew Wandel, Extinction Predictors in Turbulent Spray Combustion, University of Southern Queensland (USQ), Australia	Participant
29 Aug 2012	USQ Combustion Meeting, University of Southern Queensland (USQ), Australia	Presenter
28 Aug, 4&11 Sept, 2012	LaTeX Basic, Intermediate and Advanced Training, Dr. Kazem Ghabrie, University of Southern Queensland (USQ), Australia	Participant
22 Aug 2012	Seminar - Demystifying the Publications Reporting Process	Participant
12 July 2012	How to make an Effective Presentation, Associate Professor Armando Apan, University of Southern Queensland (USQ), Australia.	Participant
7-9 July 2012	Malaysian Postgraduate Conference (MPC) 2012, Bond University, Gold Coast, Queensland, Australia	Presenter and Technical Comm. Chair
26 Apr 2012	Thesis Writing using Word 2010, University of Southern Queensland (USQ), Australia	Participant
21 - 23 Mar 2012	LabVIEW and Data Acquisition Training, by Dean Beliveau, University of Southern Queensland	Participant
29 Nov ~ 1 Dec 2011	The 2011 Australian Symposium on Combustion (ACS) 2011, ANZ Combustion Institute, Shoal University of Newcastle, Bay Resort, Shoal Bay, New South Wales, Australia	Presenter
17 Nov 2011	USQ Research Evening Conference and Exhibition (USQREC) 2011, Toowoomba Conference Centre, Queensland, Australia.	Presenter
6 Jul 2011	Seminar on the Australian Code for the Responsible Conduct of Research (USQ), by Dr Simon Bain	Participant
24 Jun 2011	Workshop on on EndNote Advance, University of Southern Queensland (USQ), Australia	Participant
22 Jun 2011	Workshop on Literature Review Preparation, University of Southern Queensland (USQ), Australia	Participant
10 Jun 2011	Training on EndNote Introduction, University of Southern Queensland (USQ), Australia	Participant
01 Jun 2011	Seminar on Literature Review Preparation, University of Southern Queensland (USQ), Australia	Participant

01 Apr - 31 May 2011	Computational Fluid Dynamics (CFD) Comprehensive Training (2 Hours x 12 Class), University of Southern Queensland (USQ), Australia	Participant
21 Mar 2011	Mastering Microsoft Power Point Presentation, University of Southern Queensland (USQ), Australia	Participant
29 Nov - 1 Dec 2011	The 2011 Australian Symposium on Combustion, ANZ Combustion Institute, Shoal University of Newcastle, Bay Resort, Shoal Bay, NSW (Australia)	Presenter
10-12 Nov 2010	Engineers Australia QLDs Southern Region Engineering Conference (SREC) 2010, University of Southern Queensland, Australia	Participant
29-30 Jul 2010	AKEPT: Research Management & Leadership Workshop, Prof. M.J.M.Nor KPT, Prof. A.K.Ariffin UKM, Glenmarie Golf Resort, Shah Alam.	Participant / Grp Leader
28-30 Jun 2010	Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2010, Bayview Hotel, Melaka	Presenter
23-24 Jun 2010	FKM Continuous Quality Improvement (CQI) for Teaching Plan, UMP, Gambang	Panel / Participant
17 Jun 2010	A Course on Statistical Analysis, by PM Dr. Norzaidi, UMP Gambang	Participant
8 Jun 2010	A Course on Creative Thinking, by Osra Management & Services Sdn. Bhd, UMP Gambang	Participant
26 May 2010	National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER) 2010, UMP Pekan.	Conference Co-Chair
26 Apr 2010	Bengkel Pembangunan Kandungan Projek KRSTE.my R3, UMP Kampus Gambang	Participant
14 Apr 2010	PSM Examiners for Undergraduate Thesis, UMP Kampus Gambang	Lead Panel
7 Apr 2010	Interviewer Panel JPA Program Ijazah Luar Negara (PILN) 2010 at Universiti Islam Antarabangsa (UIA) Kuantan.	Interviewer Panel
4 Apr 2010	Occupational Safety and Health Act (OSHA) Seminar, by Ir Lai, UMP Kampus Gambang	Organizer
1 Apr 2010	Interviewer Panel for UMP Fellowship, UMP.	Panel
31 Mar 2010	Program Head Start Pengajian Siswazah, UMP Kampus Gambang, Prof. Dr. Yuserie.	Organizer / Participant
29 Mar 2010	Outcome Based Education Training, UMP Kampus Pekan	Trainer
20-21 Mar 2010	Konvensyen Keusahawanan ECER-KPT 2010, Kelantan Trade Center, Kota Bharu. Panel for Automotive Excellence Center.	Panel Presenter
17-18 Mar 2010	EAC Mock Audit for Bachelor of Mechanical Engineering with Automotive Engineering & Manufacturing Engineering by Prof. Ir. Dr Ramesh & Dr Tan	Leader
8-9 Mar 2010	BEM Mandatory Course: Code of Ethics / Regulations, IEM Petaling Jaya, by Ir Rocky Wong, Ir. Yim HW & Prof. Ir. Dr. Ruslan.	Participant
5 Mar 2010	Intellectual Properties: From Patenting to Commercialization, UMP, by Pintas IP Group.	Participant



18-20 Feb 2010	FKM External Examiner Meeting, Vistana, Kuala Lumpur	Facilitator & Expert Panel
16-17 Feb 2010	AKEPT Training: Scenario of the Global Higher Education, Pan Pacific, KLIA.	Participant
4-6 Feb 2010	Malaysia Technology Expo (MTE) 2010, PWTC, Kuala Lumpur.	Project A. Leader
22 Dec 2009	ISO 9000 & QMS Training, FKM Seminar Room, Universiti Malaysia Pahang.	Participant
15-17 Dec 2009	USM & UMP Postgraduate Colloquium 2009 (PGRC09), UMP.	Technical Committee & Panel Chair.
13 Dec 2009	FKM Team Working (TWC), Summerset Resort, Kuala Rompin.	Group Leader & Participant
10-12 Dec 2009	FKM Outcome Based Education and Continuous Quality Improvement Meeting and Workshop, Summerset Resort, Kuala Rompin.	Group Leader & Participant
8-10 Dec 2009	Training for Trainers (TOT) for Engineering Accreditations Council (EAC) Requirement, by Assoc. Prof. Ir. Megat Johari Megat Mohd Noor, Legend Resort, Cherating.	Participant
2 Dec 2009	Sc Fund Research Project Final Presentation, MOSTI Sc Fund Conference, Putrajaya International Convention Center.	Presenter
1-4 Dec 2009	Main Key Result Area for Vocational and Technical Education (MKRA VOCTECH), Ministry of Education (MoE), Selesa Beach Resort, Port Dickson, Negeri Sembilan. YB. Dato Mohd Fuad Zarkashi.	Participant / Group Leader
20 Nov 2009	AKEPT Meeting: Innovation through Sustainable Improvement, Shangri-La Hotel, Putrajaya	Participant
19 Nov 2009	MQA and KPT Requirement for New Program & New Faculty, by Assoc. Prof. Zurida.	Participant
17 Nov 2009	BioMalaysia Exhibition, Ministry of Science, Technology and Innovation, 2009. KLCC.	Visitor
16 Nov 2009	First Evaluation for PhD Postgraduate Students at Meeting Room Center of Graduate Studies, Universiti Malaysia Pahang Seminar Room.	Lead Panel
6-8 Nov 2009	Bengkel Pemurnian Dokument MS ISO 9001: 2008	Participant
22-26 Oct 2009	Kursus BTN Luar Negara, Kem Bina Negara Balik Pulau, Pulau Pinang.	Group Leader & Participant
18-20 Oct 2009	Education Libya Fair, Libya Education Fairground, Tripoli, Libya	Lead Delegates
8 - 10 Oct 2009	Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning, (PECIPTA09), 2009. KLCC, Malaysia.	Lead Judge & Researcher

1 Oct 2009	Organising Committee, National Conference of Postgraduate Research (NCON-PGR 2009), FKM Seminar Room, Universiti Malaysia Pahang.	Organizing Committee Chairman, Panel Chair and Reviewer
29 Sept 2009	UMP Undergraduate Research Competition, CENFED Training Room, Universiti Malaysia Pahang.	Lead Judge
15-16 Sept 2009	2 <sup>nd</sup> FKM EAC Documentation and Report Preparation for Bachelor of Mechanical Engineering, Holiday Villa, Cherating.	Group Leader
9 - 10 Sept 2009	FKM EAC Mock by Ir Lai and Ir Rasdan, UMP Pekan Campus, Universiti Malaysia Pahang Seminar Room.	Leader
28 Aug 2009	FKM OBE Workshop: Teaching Plan and Final Examination Vetting, Vistana Hotel, Kuantan	Manufacturing & Material Expert Leader
16 - 19 Jul 2009	Training on Self Transformation toward the excellence of UMP, Woodland Resort, Kuala Tahan, Pahang, by Dato Dr. Hj Fadzilah Kamsah	Participant
30Jun-2Jul 2009	Meeting on Preparation to Apply MOSTI Sc Fund, Hotel Legend, Cherating, Pahang.	FKM Leader & Project Leader
25 Jun 2009	How to Write A Good Research Proposal & Journal / Conference Paper, Prof. Dr. Youssef Shatilla, (Massachusetts Institute of Technology), UMP	Organizer, Participant
23-24 Jun 2009	FKM External Examiner Evaluation (Prof. Dr. Youssef Satilla, MIT), Universiti Malaysia Pahang Seminar Room.	Facilitator & Expert Panel
22 Jun 2009	Washington Accord and Outcome Based Education, from ABET Evaluator Point of View, Prof. Dr. Youssef Shatilla, (Massachusetts Institute of Technology), Universiti Malaysia Pahang Seminar Room.	Organizer, Participant
20-22 Jun 2009	Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET) 2009, Ms Garden, Kuantan, Pahang, Malaysia. (Conference Technical Committee)	Presenter, Session Chairperson, Reviewer & Exhibitor
16 Jun 2009	Ministry of Science, Technology and Innovation (MOSTI) - Industry Forum 2009, Marriot Putrajaya 16 Jun 2009. YB Tuan Hj Fadillah Haji Yusof	UMP Representative
4-5 Jun 2009	Part 2: Training on ISO/IEC 17025, General Requirements for the Competence of Testing and Calibration Laboratories, Mini Theatre, UMP. Mr Pua Hiang	Participant
1-3 Jun 2009	International Conference on Recent Advances in Materials, Minerals & Environment (RAMM) 2009, 1-3 Jun, Bayview Beach Resort, Batu Ferringhi, Penang, Malaysia.	Participant
25 - 29 May 2009	OBE Continuous Quality Improvement, Curriculum Design and Teaching Plan OBE Workshop, KPU Training Room, Universiti Malaysia Pahang.	Group Leader
21-23 May 2009	Part 1: Training on ISO/IEC 17025, General Requirements for the Competence of Testing and Calibration Laboratories by Mr Pua Hiang, Mini Theatre, Universiti Malaysia Pahang.	Participant
15-18 May 2009	20 <sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX08), PWTC Kuala Lumpur	Participant

12-13 May 2009	Journal Publication Course by A. Prof. Dr. Norzaidi M. Daud (UiTM Shah Alam) , Universiti Malaysia Pahang Seminar Room.	Participant
7-8 May 2009	12 <sup>th</sup> CIRP International Conference on Modelling Of Machining Operations, (CIRP CMMO09), 7-8 May, Donostia-San Sebastian, Spain.	Presenter
5 May 2009	FKM EAC Self-Assessment Report Workshop, Universiti Malaysia Pahang Seminar Room.	Expert Panel
24-26 Apr 2009	UMP Research and Innovations (P&I) Strategic Planning Workshop, Hyatt Kuantan, Pahang.	Participant
11 Apr 2009	National Engineering and Technology Convention (NTEC) & Malaysian Society of Engineering and Technology (mSET) 2009 Annual General Meeting, Equatorial Hotel, Bandar Baru Bangi, Selangor.	Participant
10-12 Apr 2009	FKM External Examiner Evaluation at Kuala Lumpur	Facilitator & Expert Panel
1-2 Apr 2009	Interviewer Panel JPA Program Ijazah Luar Negara (PILN) 2009 at Universiti Malaysia Terengganu.	Interviewer Panel
30 Mar 2009	CIDB Green Card Training, Universiti Malaysia Pahang Seminar Room.	Participant
13, 24 & 26 Mar 2009	Review UMP and FKM Research Grant Application, Universiti Malaysia Pahang Seminar Room.	Expert Panel
18 Mar 2009	Fac. of Mechanical Engineering Solidwork Competition Judge / Panel Evaluator, Universiti Malaysia Pahang Seminar Room.	Judge / Expert Panel
16 Mar 2009	FKM UMP Stakeholders Meeting, Universiti Malaysia Pahang Seminar Room.	Facilitator & Expert Panel
13-15 Mar 2009	UMP Workshop for MQA Audit Prestasi Akademik (APA) Preparation, Universiti Malaysia Pahang Seminar Room.	Participant
10 Mar 2009	FKM UMP Industry Advisory Panel Meeting, Universiti Malaysia Pahang Seminar Room.	Facilitator & Expert Panel
4-6 Mar 2009	Training Panel Penemuduga Program Ijazah Luar Negara (PILN) 2009 at AFamosa, Melaka.	Participant
19-21 Feb 2009	Malaysian Technology Expo, MTE 2009, Putra World Trade Center, Kuala Lumpur. (3 Research Product Exhibition and Competition), 1 Gold and 2 Bronze Award.	Project Leader & Researcher
16-17 Feb 2009	The 1st AUN/SEED-Net Regional Conference on Materials 2009, (RCM 2009), USM, Equatorial Hotel, Penang, Malaysia.	Presenter
6-8 Feb 2009	Workshop on FKM Technical Group Organisation and KPIs, Legend Cherating, Pahang.	Facilitator
30 Jan-1Feb 2009	Meeting on Preparation to Apply MOSTI Sc Fund, Hotel Legend, Cherating, Pahang	Project Leader
11 Jan 2009	Expert Panel for Faculty of Industrial Science and Technology, Universiti Malaysia Pahang Seminar Room.	Expert Panel
10 Jan 2009	Training on Introduction to MSC.PATRAN/NASTRAN, Universiti Malaysia Pahang Seminar Room.	Organizer & Participant
30 Dec 2008	Training on Introduction to STATISTICA Industrial.	Participant
21-23 Dec 2008	Engineering Accreditation (EAC) Lead Trainer, Vistana Hotel, Kuantan	Participant

18-20 Dec 2008	2 <sup>nd</sup> Engineering Conference on Sustainable Engineering Infrastructures Development & Management (ENCON08), 18-19 December Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia, 2008.	Presenter & Session Chairman
16-17 Dec 2008	Malaysian Science and Technology Congress, MSTC08, 16-17 Dec, KLCC, Malaysia, 2008.	Presenter
12-13 Dec 2008	2 <sup>nd</sup> International Conference on Science and Technology, Applications in Industry and Education, ICSTIE08, 12-13 December, UiTM Penang.	Presenter
4-5 Dec 2008	FKM APEX15: Strategic Planning and SKT, Hotel Legend, Cherating, Pahang.	Participant
1-3 Dec 2008	FKM OBE Workshop: Curriculum Transformation and Teaching Plan Review, Selesa Hilhomes, Bukit Tinggi, Pahang	Facilitator
17-25 Nov 2008	Kursus Penilaian Tahap Kecekapan (TK3), Universiti Malaysia Pahang Seminar Room. Result: Excellent (4/4).	Participant
2-5 Nov 2008	International Conference on Advances Materials and Processing Technologies (AMPT08), 2-5 November 2008, Gulf International Convention Center, Manama, Kingdom of Bahrain.	Presenter & Session Chairman
28-29 Oct 2008	National Conference on Design and Concurrent Engineering (DECON08), 28-29th October 2008, Avillion Legacy Hotel, Melaka	Presenter
20-21 Oct 2008	4 <sup>th</sup> International Conference on University Learning and Teaching (InCULT08), Concorde Hotel, Shah Alam, Selangor	Presenter
21-23 Aug 2008	UMP 3 <sup>rd</sup> Convocations Exhibitions, Machining Optimization Parameters (RSM) and Genetic Algorithms (GA) application for Blow Mould Development, Universiti Malaysia Pahang Seminar Room.	Exhibitor
16 Aug 2008	Bloom Taxonomy and OBE CQI Workshop, UMP	Facilitator & Participant
2 Jul 2008	Seminar on Intelligent Property by PINTAS, CENFED Training Room, Universiti Malaysia Pahang.	Participant
23-24 Jun 2008	Training on Writing Conference Paper by Prof. Dr. Azirah Hashim, UM at Vistana, Kuantan.	Participant
9-11 Jun 2008	FKM Continuous Quality Improvement(CQI) in OBE Training by Prof. Ir. Dr. Riza UKM, and EAC Task Force Meeting, De Rhu, Balok, Kuantan.	Participant
8-9 Jun 2008	7 <sup>th</sup> UMT International Symposium on Sustainability Science and Management (UMTAS) 2008, UMT, Primula Beach Hotel, Kuala Terengganu.	Presenter
27-28 May 2008	Kursus Asas Penulisan, Prof. Nor Aripin (UPM), CENFED Training Room, Universiti Malaysia Pahang.	Participant
9-11 May 2008	19 <sup>th</sup> International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX08), PWTC Kuala Lumpur – Bronze Medal Award.	Exhibitor
28-29 Apr 2008	Training on Application for Sc Fund Grant by Prof. Dr Ahmad Fauzi (UTM), PBMSK Mini Theater Room, Universiti Malaysia Pahang.	Participant
23 April 2008	Forum MTUN with Industry 2008, FORTUNE 08, Holiday Inn, Melaka.	Participant
22 Apr 2008	Training on ALGOR finite element software application, Universiti Malaysia Pahang Seminar Room.	Participant

26 Mar 2008	Malaysia Quality Framework Training, Dr Rosilini, MQA, PBMSK Mini Theatre room.	Participant
19 Mar 2008	Material Carburizing Treatment Training.	Participant
15-16 Mar 2008	Malaysian Technical Universities Conference on Engineering and Technology, MUCET 2008 UniMAP, Putra Palace, Kangar, Perlis.	Presenter
29 Feb -2 Mar 2008	FKM Outcome Base Education Training, Holiday Villa, Cherating.	Chairman / Participant
4-5 Feb 2008	Engineering Contract Training, Board of Engineer Malaysia (BEM) mandatory training for professional engineer (PE) by Ir. Harban Singh.	Participant
29-30 Dec 2007	Occupational Safety and Health Training, Board of Engineer Malaysia (BEM) professional engineer (PE) mandatory training by CMD(R) Ir. Raymond Sua.	Participant
27-28 Dec 2007	Management Skill Training, Board of Engineer Malaysia (BEM) mandatory training for PE by CMD(R) Ir. Raymond Sua.	Participant
15-23 Dec 2007	Research Exhibition – Development of laser cutting and engraving machine utilizing PC-NC controller, East Coast Economic Region (ECER), Petronas Exhibition, Kuantan, Pahang.	Exhibitor
17 Dec 2007	Technical training – Thermodynamics free and force heat convection by supplier technical trainer.	Participant
10 Dec 2007	Training on academic advisor and Student Motivation and Counselling, Ms Garden, Kuantan, Pahang	Participant
27 Nov 2007	Technical training – Thermodynamics Marcet Boiler by supplier's trainer.	Participant
19-21 Nov 2007	Training on Outcome Based Education Approach: Monitoring and Assessment, by MQA, KPT & CTL UTM. – Equatorial Hotel KL.	Participant
27 Oct 2007	Expert Panel for New Faculty Setup: Faculty of Manufacturing Engineering, Universiti Malaysia Pahang Seminar Room.	Expert Panel
5 Oct 2007	International Journal Writing Seminar, Prof. Dr. Mustafa (UTHM), Universiti Malaysia Pahang Seminar Room.	Participant
18-19 Sept 2007	Induction Course, UMP Special Module, Universiti Malaysia Pahang Seminar Room.	Participant
6 Sept 2007	Qualitative Research Seminar, Dr. Shamsuddin (UPM), Universiti Malaysia Pahang Seminar Room.	Participant
18-30 Aug 2007	Induction Course, Overall Module – Sanctuary Resort, Cherating	Participant
14 Aug 2007	Industrial Laser & Gas Seminar, Mr Owe Vogel (TRUMPF CEO)–GMI, Cheras, Selangor, Malaysia	Participant
9-12 Aug 2007	Research Exhibition – Development of laser cutting and engraving machine utilizing PC-NC controller, Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning 2007 (PECIPTA07), KLCC.	Exhibitor
4 Aug 2007	Lecturer Professionalism Seminar on Effective MSc/PhD Supervision, Prof. Dr. Halimah (UKM) – MS Garden, Kuantan, Pahang.	Participant
13-15 Jul 2007	Teaching and Learning Course, Module 2 – Legend, Cherating, Pahang.	Participant

10 Jul 2007	Research Grant, Science Fund Workshop, Proposal Writing Workshop, Prof. Dr. Nor Aripin – Hyatt Regency, Kuantan, Pahang	Participant
6 Jul 2007	Outcome Base Education Training, Sg Tembling Resort, Kuantan.	Participant
23-26 Jun 2007	Teaching and Learning Course, Module 1 – La Paris Hotel, Port Dickson, Negeri Sembilan.	Participant / Leader
27-29 May 2007	How to Make Facilitation Works for You as a Great Lecturer Workshop, Quality Hotel, Kuala Lumpur.	Participant
19-20 May 2007	Good Practice Management Research and <i>K-Chart</i> Workshop, PM. Dr. Khazrani (UPM), Universiti Malaysia Pahang Seminar Room.	Participant
14-18 May 2007	Research Methodology (SLAB) Course – Prof. Dr. Fauzi (UTM), Prof. Dr. Rosli (UMP), Universiti Malaysia Pahang Seminar Room.	Participant
28 Mar 2007	Fundamental Research Grant Scheme (FRGS) Proposal Writing Workshop, Prof. Dr. Awaluddin (UTM) – MS Garden, Kuantan	Participant
2006	Sony Managers Training - Stress Management	Participant
2006	Sony Managers Training - Managing Performance Appraisal	Participant
2006	Sony Managers Training - Sony Leadership Training	Participant
2006	Sony Managers Training - Business as Unusual	Participant
2006	Sony Managers Training - Manufacturing Innovation Advance	Trainer
2006	Production Innovation: 7 Waste Training, 2006.	Trainer
2005	HIRARC, Aspect and Impact Training, 2005	Participant
2005	Sony Managers Training - Stress Transformation Workshop/Training, 2005.	Participant
2005	Sony Managers Training - Managing Performance Plan, 2005	Participant
2005	Advance Production Innovation Training, 2005.	Trainer
2004	Advance Ergonomic Training, 2004.	Trainer
2004	Quality, Environment, Safety and Health Lead Auditor Training, (IMS) 2004	Participant
2004	Environment, Occupational Safety & Health Legal Requirement, 2004	Participant
2004	Sony Window Analysis as Problem Solving Tools, 2004	Participant
2004	Creativity and Innovation Seminar by Peter De Bono, 2004	Participant
2004	Sony Green Partnership Lead Auditor Training, 2004	Participant
2004	Microsoft Office Advance Training, 2004	Participant
2004	Noise and Hearing Conservation Training, 2004	Participant
2004	Safety and Health Training, 2004	Participant