

CURRICULUM VITAE

PERSONAL DETAILS



PROFESSOR DR. MD. MUSTAFIZUR RAHMAN (M.M. RAHMAN)

Faculty of Mechanical Engineering

Universiti Malaysia PAHANG

26600 Pekan, Pahang, MALAYSIA

Tel: 609-4246239, Fax: 609-4246222

Email: mustafizur@ump.edu.my; mustafiz12@gmail.com

h-Index: 16 (on 18 March 2015)

Citation: 1211 (on 18 March 2015)

ACADEMIC QUALIFICATIONS

1. PhD (Mechanical and Materials Engineering, Applied Mechanics), UKM, Malaysia, 2007
2. M.Sc. Eng. (Mechanical Engineering, CFD),
Bangladesh University of Engineering and Technology (BUET), Bangladesh, 1996
3. B.Sc. Eng. (Mechanical Engineering)
Bangladesh University of Engineering and Technology (BUET), Bangladesh, 1994

BRIEF PROFILE

Professor Dr. Md. Mustafizur Rahman is a consultant, a researcher currently working with the Faculty of Mechanical Engineering, Universiti Malaysia Pahang, Malaysia since April 2007. Dr. Rahman also served as a Deputy Director as well as acting Director in the Automotive Engineering Centre, UMP. He received his Bachelor and Master of Science in Mechanical Engineering from the Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh in 1994 and 1996 respectively. He received his Ph.D. degree from the Department of Mechanical and Materials Engineering, Universiti Kebangsaan Malaysia, Malaysia in 2007. He served as Lecturer in the Department of Mechanical Engineering, Khulna University of Engineering and Technology, Khulna, Bangladesh from 1996 to 1998 and also served as an Assistant Professor in the Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Bangladesh from 1998 to 2007. He served as a head of the department in the same department from 1998 to 2001. The research work of Dr. Rahman is focused on applied mechanics (fatigue and Fracture), computational mechanics, as well as advanced machining, optimization, finite-element analysis, modeling of modern materials, internal-combustion engine and alternative fuels. He has published more than 290 papers in international scholarly journals and conferences. He is also the member of Editorial Boards of seven scientific journals, including the Associate Editor in Chief of International Journal of Automotive and Mechanical Engineering (IJAME) and managing Editor of Journal of Mechanical Engineering and Sciences (JMES). He has been the technical reviewer for over 25 scientific journals as well as the member of the technical board for conferences. He is the fellow of Association of Computer, Electronics and Electrical Engineers (ACEEE) and Indian Society of Mechanical Engineers (ISME), senior members of American Society of Mechanical Engineers (ASME) and International Association of Computer Science and Information Technology (IACSIT), founder member of Malaysian Society for Engineering and Technology (mSET) and also members of several professional societies such as Institute of Engineer, Bangladesh (IEB); Bangladesh Society of Mechanical Engineers (BSME); International Association for Computation Mechanics (IACM); Malaysian Association of Computational Mechanics (MACM); International Association of Engineers (IAENG). He has been supervising 11 PhD and seven M.Sc. Eng. Candidates (by research) and more than 45 undergraduate dissertations.

WORKING EXPERIENCES

Sl.	Position	Year	Organization/Employer
1.	Professor	23/08/2013 to date	Universiti Malaysia Pahang
2.	Associate Professor	18/05/2009 to date	Universiti Malaysia Pahang

3.	Director (Acting), Automotive Engineering Centre	26/02/2011-14/07/2011	Universiti Malaysia Pahang
4.	Deputy Director, Automotive Engineering Centre	17/04/2009-25/02/2011	Universiti Malaysia Pahang
5.	Senior Lecturer	23/11/2007 to 17/5/2009	Universiti Malaysia Pahang
6.	Visiting Lecturer	19/04/2007 to 2/11/2007	Universiti Malaysia Pahang
7.	Assistant Professor	01/03/1998 to 6/09/2009	Shahjalal University of Science and Technology, Sylhet, Bangladesh
8.	Lecturer	25/05/1996 to 8/02/1998	Khulna University of Engineering and Technology, Bangladesh
9.	Research Assistant	02/05/2003 to 5/04/2007	Universiti Kebangsaan Malaysia, Bangi, Malaysia (UKM under IRPA project (no. 03-02-02-0056 PR0025/04/03))
10.	Teaching Assistant, Department of Mechanical Engineering,	01/04/1994 to 23/05/1996	Bangladesh University of Engineering and Technology, Bangladesh

EXPERT AREA/RESEARCH INTEREST

- ✓ INTERNAL COMBUSTION ENGINE
- ✓ ALTERNATIVE FUELS
- ✓ ADVANCED MACHINING
- ✓ ARTIFICIAL INTELLIGENCE TECHNIQUES
- ✓ FATIGUE AND FRACTURE MECHANICS
- ✓ DURABILITY OF THE STRUCTURES
- ✓ FINITE ELEMENT MODELING AND ANALYSIS
- ✓ MULTIDISCIPLINARY OPTIMIZATION (MDO)
- ✓ VIBRATION TESTING, ANALYSIS AND MODELING
- ✓ APPLIED MECHANICS
- ✓ COMPUTATIONAL AND EXPERIMENTAL MECHANICS
- ✓ COMPUTATIONAL FLUID DYNAMICS

RESEARCH PROJECT/GRANTS

DETAILS LIST AND INFORMATION

No.	Project No.	Title and amount of project	Role	Status
1	RDU070347	Experimental study on fatigue life of spot welded high strength steel sheet for automotive components (RM. 19000.00) [09/01/2007 -31/08/2008]	Leader	Completed
2	RDU070346	Numerical Study on Fatigue Life of Spot Welded for Automotive Components" as a Researcher (RM 19,000.00) [09/01/2007 -31/08/2008]	Member	Completed
3	RDU070344	Development of tribological / wear resistance of stainless steel by plasma nitriding (RM 19,000.00) [09/01/2007 -31/08/2008]	Member	Completed
4	RDU080371	Prediction of tire friction, tread deformation and tire traction for automotive industry (RM 19800.00)	Member	Completed
5	RDU080322	Simulation of 2-Dimensional of droplet motion on inclined surface phenomenon using lattice Boltzmann method (LBM) algorithm (RM 15000.00) [01/08/2008 -31/07/2009]	Member	Completed
6	RDU090102	Enzymatic Treated Kenaf Fiber Reinforced Poly	Member	Completed

	(FRGS)	Lactic Acid (Pla) Composites: Study The Enzymatic Mechanism Of Fiber And Bonding Mechanism Of Composites (RM37000.00) [01/01/2010 -30/04/2012]		
7	RDU090343	Experimental Study of An Energy Performance of Hybrid Electrical Vehicle System (RM27000.00)	Member	Completed
8	RDU090398	Accuracy of Stainless Steel Thick Plates In Peripheral Machining (RM40000.00) [01/10/2009 -30/09/2010]	Member	Completed
9	RDU090201	A Novel and Flexible Solar Car Kit For Educational Use [01/08/2009 -31/07/2010]	Member	Completed
10	GRS090121	Study Of Hydrogen Fueled Internal Combustion Engine Heat Transfer (RM16500.00) [03/01/2009 - 28/02/2012]	Leader	Completed
11	RDU090393	Development of Heat Transfer Techniques for Hydrogen Fuelled Internal Combustion Engine (RM40000.00) [01/05/2009 -30/11/2010]	Leader	Completed
12	RDU090394	Experimental Investigation of Machining Performance Of Near Dry And Powder Mixed Dielectric (PMD) Electrical Discharge Machining (EDM) On Titanium Alloys (RM40000.00) [01/05/2009 - 30/11/2010]	Leader	Completed
13	GRS090335	Machining Performance of Power Mixed Electrical Discharge Machining on Titanium Alloys (RM16500.00) [01/12/2009 -30/11/2012]	Leader	Completed
14	RDU090397	Design and Efficient Performance Appraisal of Hydrogen Fueled Automobile Engines Combustion Chamber and Port Injector (RM40000.00) [01/05/2009 -30/04/2010]	Leader	Completed
15	RDU0903126	An investigation of wind power potential at Kuala 3Pahang, Pekan (RM40000.00) [01/11/2009 - 30/11/2011]	Member	Completed
16	RDU090374	Optimization of Grinding Wheel Parameters With Intelligent Techniques(RM40000.00) [06/01/2009 - 30/11/2011]	Member	Completed
17	RDU090367	Development of Micro-EDM With Microactuator Feed Control System (RM40000.00) [01/05/2009 - 30/04/2011]	Member	Completed
18	RDU0903100	Heat Transfer Augmentation with Aluminium Oxide Nanofluid In A Plain Tube And With Inserts (RM40000.00) [01/10/2009 -30/09/2010]	Member	Completed
19	RDU090370	Experimental Laser-Micromaching of MEMS Components (RM32500.00) [01/05/2009 -30/04/2011]	Member	Completed
20	RDU0903111	Production of Composites From Oil Palm Fibre With Recycled Polyethyene and Polypropylene (RM40000.00) [01/08/2009 -31/07/2011]	Member	Completed
21	RDU0903112	Malaysian Grown Kenaf Fibre Reinforced Polylactic Acid-Pla Composites (Biodegradable) For Structural Application (RM40000.00) [01/08/2009 -31/07/2011]	Member	Completed
22	FRGS10-026-0145	Effect Of Inhibitors On The Corrosion Of Automotive Materials Under Palm Oil Biodiesel (RM39560.00) [01/10/2010-30/09/2012]	Member	Completed
23	FRGS10-026-0146	Fundamental Study of New Eco-Core Metal Matrix Composite Sandwich Structure (RM39000.00) [01/10/2010-30/09/2012]	Member	Completed
24	RDU100387	Characterization of Heat Transfer Process for Hydrogen Fueled Internal Combustion Engine (RM24460.00) [15/11/2010 -14/11/2011]	Leader	Completed
25	GRS100331	Optimal Minimum Quantity Lubricant (MQL) for Enhancing Machinability of Super-alloys (RM6500.00) [01/07/2010 -30/06/2012]	Leader	Completed
26	GRS100332	Performance Characteristics of Gas Turbine Power Plant Based on Various Operation Conditions	Leader	Completed

		(RM16500.00) [01/07/2010 -30/06/2013]		
27	RDU100187	Quantitative Assessment Exposure of Vibration to Malaysian Drivers	Member	Completed
28	RDU100108 (FRGS)	Hybrid Optimization Model to Enhance the Machinability of Titanium Alloys (RM49880.00) [15/09/2010 -14/09/2012]	Leader	Completed
29	RDU100380	Machining of Nickel Superalloy Material Using Nanofluid as Coolant for Light Alloy Piston (RM40000.00) [15/10/2010 -14/10/2011]	Member	Completed
30	RDU110336	Development of New Lubricant Dispersed with Nanoparticles (RM35000.00)) [01/08/2011-01/11/2012]	Member	Completed
31	RDU110332	Development of a new algorithm to characterize the heat transfer of fins in automotive applications (RM30800.00)) [15/07/2011-15/01/2013]	Member	Completed
32	RDU110373	Development of Tool-Life Performance Model For Mold And Die Using Near Dry Machining Technique (RM36600.00) [01/09/2011-01/03/2013]	Member	Completed
33	RDU110349	A Frequency Domain Approach for Fatigue Life Estimation of An Automotive Suspension System (RM36500.00) [15/08/2011-15/02/2013]	Member	Completed
34	RDU110326	Surface Impregnation/modification using Nanomaterials for enhanced mechanical properties of metal surfaces (RDU37500.00)) [15/07/2011-15/07/2012]	Member	Completed
35	RDU110317	Development Of New Heat Exchanger And The Performance Optimization For Automobile Radiator Application (RM38000.00)	Member	In progress
36	RDU110110 (FRGS)	Minimum Quantity Lubrication Technique for End Mill to Enhance Machinability of Aluminum Alloys (RM200000.00)) [08/07/2011-01/03/2013]	Leader	Completed
37	PRGS-12-002-0002	Prototype Development of light weight aluminum matrix composite automotive brake rotor (RM174000.00) [01/08/2012-30/07/2014]	Member	Completed
38	ERGS12-021-0021	Characterization of Tribo-Corrosion using Jatropa Curcas Linnaeus Biodiesel for Automotive Engine Component Materials (RM80000.00) [1/7/2012-30/6/2015]	Member	In progress
39	RDU120103 (FRGS)	Modeling and Performance Characteristics of Finned Flat Tubes Heat Exchanger (RM76780.00) [01/05/2012-30/04/2015]	Leader	Completed
40	RDU120310	Nanoparticle Based Coolants In Grinding Processes For Automotive Industry Cooling Applications (RDU35500.00) [01/04/2012-31/03/2014]	Leader	Completed
41	RDU120104 (FRGS)	Potential of Integrated Chatter Avoidance and Minimum Quantity Lubrication Condition in Machining Process (RM56000.00) () [01/05/2012-30/04/2014]	Member	In progress
42	RDU120342	Development Of EDM injection flushing technique to enhance machining performance on titanium alloy for automotive valve application (RM39900.00) [01/06/2012- 31/05/2014]	Member	Completed
43	RDU120341	Development of a New Technique to Weld Dissimilar Metals for Automotive Applications (RM31100.00) [01/06/2012-31/05/2014]	Member	Completed
44	RDU120359	New Type Of Coating Material For Automotive Electronic Devices Application (RM30790.00) [01/06/2012-31/05/2014]	Member	Completed
45	RDU1303127	development of multiaxial fatigue modeling for lightweight automotive suspension components, RM34000.00 (25/12/13-24/12/2015)	LEADER)	ON GOING

46	RDU130146 (FRGS)	Multiaxial fatigue modeling for safety-critical lightweight automotive suspension components, RM122000.00 (1/12/13-30/11/2016)	LEADER	ON GOING
47	RDU130131 (FRGS)	Fundamental study of jatropha biodiesel oil on ultra-low emission homogeneous charge compression ignition engine combustion, RM115200.00 (1/12/13-30/11/16)	MEMBER	ON GOING
48	RDU130129 (FRGS)	Development and characteristics of waste cooking oil as bio-lubricant and nano-lubricant at high temperature , RM59000.00 (1/12/13-30/11/16)	MEMBER	ON GOING
49	RDU130393	Characteristiction of Engine Oil with Nano Particle as an Additives. RM 34,500.00 [25/11/2013-24/11/2015]	MEMBER	ON GOING
50	RDU130107 [FRGS]	Solder Joint Reliability Between Lead Free Solder and Direct Immersion Gold Surface Finish for Automotive Electronic Devices Application. RM 125,000.00 [01/04/2013-31/09/2015]	MEMBER	ON GOING
51	GRS140309	Study of multiaxial fatigue characteristics of aluminum alloy automotive suspension systems, RM1800.00 (25 february 2014 – 24 feb 2017)	LEADER	ON GOING
52	GRS140310	Development of optimum quantity lubrication technique using nanofluids for sustainable machining of aluminum alloys, RM1800.00 (25/02/2014 – 24/02/2017)	LEADER	ON GOING
53	RDU1403126	Impact Biodiesel Fuel Characteristics on Ultra-Low Emission Homogeneous Charge Compression Ignition Engine RM38500.00 [15/11/2014 -14/11/2016]	LEADER	ON GOING
54	RDU140125 [FRGS]	Engine Valve Seat wear study on Compressed Natural Gas (CNG)by using Nano Powder RM12500.00 [01/07/2014-30/06/2017]	MEMBER	ON GOING
55	RDU140120 [FRGS]	Characterization of Biodegradable Composites Based on Pineapple Leaf Fibre and Tapioca Bioplastic Resin. RM83,000.00 [01/07/2014-30/06/2016]	MEMBER	ON GOING
56	RDU1403134	Hybrid Nanoparticles With Ethylene Glycol For Car Radiator Application. RM35,200.00 [25/11/2014-24/11/2016]	MEMBER	ON GOING
57	RDU140116 [FRGS]	Multiaxial Modelling of Lightweight Sandwich Structures based on Corrugated-cores for Aerospace Application. RM124,000.00 [01/07/2014-30/06/2017]	MEMBER	ON GOING
58	RDU1403124	Valve Wear Analysis with Nano Coating for Compressed Natural Gas (CNG) Engine. RM21,750.00 [15/11/2014-14/11/2016]	MEMBER	ON GOING
59	RDU1403132	Development of Test Equipment to Study Tooth Bending Strength of Helical Gears in Automotive Transmission. RM37,190.00 [25/11/2014-24/11/2016]	MEMBER	ON GOING
60	RDU140354	Development of Titanium Manganese Alloys Foams for Biomedical Applications by Metal Injection Molding. RM40000.00 [25/04/2014-24/04/2016]	MEMBER	ON GOING
61	RDU140377	Development of a Smart Cutting Tool for Sustainable Machining of Nickel Based Alloys for the Application to Turbocharger Manufacturing. RM35,180.00 [05/06/2014-04/06/2016]	MEMBER	ON GOING
62	GRS140385	Multiobjective Evolutionary Optimization on Performance Measures of Minimum Quality Lubricant in Grinding Process. RM1800.00 [25/07/2014-24/07/2016]	LEADER	ON GOING
63	GRS140381	An Experimental Study of Jatropha Oil on Ultra-Low Emission Homogeneous Charge Compression Ignition Engine Combustion. RM2500.00 [25/07/2014-	LEADER	ON GOING

PROFESSIONAL MEMBERSHIPS

PROFESSIONAL SOCIETY MEMBERS

Bil	Membership	Year	Institution
1.	Fellow	2009	Indian Society of Mechanical Engineering (ISME)
2.	Fellow (7000050)	2008	Association of Computer, Electronics and Electrical Engineering, (ACEEE)
3.	Senior Member (M100024125)	2009	American Society of Mechanical Engineering (ASME)
4.	Senior member (M80336640)	2010	International Association of Computer Science and Information Technology (IACSIT)
5.	Founder Member (M00278)	2008	Malaysian Society for Engineering and Technology (mSET)
6.	Member (M17074)	1998	Institute of Engineers, Bangladesh (IEB)
7.	Member (M0099104)	1999	Bangladesh Society of Mechanical Engineers (BMSE)
8.	Member	2006	International Association for Computational Mechanics (IACM)
9.	Member (M0017)	2006	Malaysian Association for Computational Mechanics (MACM)
10.	Lifetime member	2012	Malaysian Tribology Society (MyTribos)
11.	Member (M65501)	2008	International Association of Engineers (IAENG)
12.	Member	2009	IAENG Society of Artificial Intelligence (ISAI)
13.	Member	2009	IAENG Society of Scientific Computing (ISSC)
14.	Member	2009	IAENG Society of Industrial Engineering (ISIE)
15.	Member	2009	IAENG Society of Operational Research (ISOR)
16.	Member	2009	IAENG Society of Mechanical Engineering (ISME)

TEACHING AND SUPERVISION

SIGNIFICANT ACHIEVEMENTS AND DEVELOPMENT OF TEACHING

No.	Year	Initiative
36	2015	Developing and Implementation of "MKM 1253 Advanced Numerical Analysis Technique" new Masters course teaching Plan
35	2015	Developing and implementation of "MKM1213 Noise, Vibration and Harshness" new Masters course teaching plan
34	2015	Develop and implementation of "BHA3613 Mechanical Design" New OBE teaching Plan.
33	2014	Develop and implementation of "BHA3613 Mechanical Design" New OBE teaching Plan.
32	2014	Developing and implementation of "MKM1213 Noise, Vibration and Harshness" new Masters course teaching plan
31	2014	Developing and Implementation of "MKM 1253 Advanced Numerical Analysis Technique" new Masters course teaching Plan
30	2014	Developing and implementing of "MKMxxxx Optimization Technique" new Masters course teaching plan
29	2013	Planning, developing and implementation of "BMM3623 Mechanical Design" new OBE teaching plan.
28	2013	Planning, developing and implementation of "BMM4623 Capstone Project" new OBE teaching plan.
27	2012	Planning, developing and implementation of "BMM3623 Mechanical Design" new OBE teaching plan.
26	2012	Planning, developing and implementation of "BMM4623 Capstone

		Project" new OBE teaching plan.
25	2011	Planning, developing and implementation of "BMM2853 Strength of Materials 2" new OBE teaching plan.
24	2011	Planning, developing and implementation of "BMM3553 Mechanical Vibrations" new OBE teaching plan.
23	2011	Planning, developing and implementation of "BMM3562 Finite Element Method" new OBE teaching plan.
22	2011	Planning, developing and implementation of "BMM3623 Mechanical Design" new OBE teaching plan.
21	2011	Planning, developing and implementation of "BMM4763 Fatigue Design and Analysis" new OBE teaching plan.
20	2011	Planning, developing and implementation of "BMM3623 Mechanical Design" new OBE teaching plan.
19	2010	Planning, developing and implementation of "BMM3623 Mechanical Design" Teaching plan according to LOKI format.
18	2010	Planning, developing and implementation of "BMM4623 Mechanical System Design" Teaching plan according to LOKI format.
17	2010	Planning, developing and implementation of "BMM3513 Heat Transfer" new OBE teaching plan.
16	2010	Planning, developing and implementation of "BMM3623 Mechanical Design" new OBE teaching plan.
15	2010	Planning, developing and implementation of "BMM4623 Mechanical System Design" new OBE teaching plan.
14	2010	Planning, developing and implementation of "BMM4763 Fatigue Design and Analysis" new OBE teaching plan.
13	2009	Planning, developing and implementation of "BMM3513 Heat Transfer" new OBE teaching plan.
12	2009	Planning, developing and implementation of "BMM3623 Mechanical Design" new OBE teaching plan.
11	2009	Planning, developing and implementation of "BMM4623 Mechanical System Design" new OBE teaching plan.
10	2008	Lead the Task Force for FKM OBE Transformation and benchmarking of OBE New Teaching Plan for future engineering (mechanical).
9	2008	Lead the Task Force for Programme Educational Objective and Program Outcome Review to produce market ready engineer with lifelong learning capabilities.
8	2008	Planning, developing and implementation of "BMM3553 Mechanical Vibrations" new OBE teaching plan.
7	2008	Initiate the SLT (Student Learning Time) usage for all subjects at FKM.
6	2008	Develop CQI related documents for EAC requirements
5	2007	Implementation of FKM MechaPro Clinic for extra tutorial especially mechanical basic subject.
4	2007	Implement SCL and PBL approach to Heat Transfer subject.
3	2007	Invited speaker for KPT talk on the KPT Opening day with School principles and school counselor for Manufacturing Engineering UMP promotions.
2	2007	Plan and develop mechanical/automotive laboratories for continues relevant to job market up to date on the decisions for equipments, accusations, training and teaching.
1	2007	Planning, developing and implementation of "BMM3623 Heat Transfer and Mechanical Design" using OBE approach. (Outcome Based Education)

FORMAL TEACHING CONTACT

(Year/ semester)	Institute/Course name and code	Credit Points/ Units)	Contact hours per semester	No. of Students
2014-15II	UMP/Noise, Vibration and Harshness MKM1213 (Cordinator)	3	3	6
2014-15II	UMP/ Mechanical Design BHA3613(Cordinator)	3	3	22

	UMP/Advanced Numerical Analysis	3	3	18
2014-15I	UMP/ Mechanical Design BMM3623	3	3	94
2014-15I	UMP/Mechanical Vibrations BMM3553	3	3	18
2013-14II	UMP/Noise, Vibration and Harshness MKM1213 (Cordinator)	3	3	11
	UMP/ Mechanical Design BHA3613(Cordinator)	3	3	19
2013-14I	UMP/Mechanical System Design BMM4723 (coordinator)	3	6	60
	UMP/Mechanical Design BMM3623 (Coordinator)	3	3	16
2012-2013II	UMP/Mechanical Design, BMM3623 (Coordinator)	3	3	60
	UMP/ Mechanical System Design, BMM4723 (Coordinator)	3	3	60
2012-2013I	UMP/Mechanical Design, BMM3623 (Coordinator)	3	6	120
	UMP/ Strength of Materials 2, BMM2582 (Coordinator)	2	6	120
2011-2012II	UMP/ Strength of Materials 2, BMM2582 (Coordinator)	2	6	105
	UMP/Mechanical Laboratory 2, BMM1821	1	3	19
2011-2012I	UMP/Mechanical Vibrations, BMM3553 (Coordinator)	3	6	102
	UMP/ Mechanism Design, BMM4723	3	3	60
	UMP/Mechanical Laboratory 2	1	3	60
2010- 2011II	UMP/Mechanical Vibrations, BMM3553 (Coordinator)	3	9	243
	UMP/Strength of Materials 2, BMM2583	3	3	48
2010- 2011I	UMP/Heat Transfer BMM3513 (Coordinator)	3	9	237
	UMP/Mechanical Design, BMM3623	3	3	244
2009- 2010II	UMP/Dynamics BMM1553 (Coordinator)	3	3	237
	UMP/Mechanical Vibrations, BMM3553	3	9	229
	UMP/Stress Analysis BMM4713	3	3	30
2009- 2010I	UMP/Mechanical Design, BMM3623 (Coordinator)	3	9	230
2008- 2009III	UMP/Automotive Control, BMM3613 (Coordinator)	3	3	58
2008- 2009II	UMP/Mechanical Vibrations, BMM3553 (Coordinator)	3	9	218
2008- 2009I	UMP/Heat Transfer, BMM3513 (Coordinator)	3	9	213
2007- 2008III	UMP/Fluid Mechanics 1, BMM2533 (Coordinator)	3	3	13

2007-2008II	UMP/Mechanical Vibrations, BMM3553 (Coordinator)	3	9	209
2007-2008I	UMP/Mechanical Design, BMM3623 (Coordinator)	3	9	215
2006-2007III	UMP/Fluid Mechanics 2, BMM2543 (Coordinator)	3	3	24
2005-2006I	UKM/ Mechanics of Materials	1	6	57
(Year/ semester)	Institute/Course name and code	Credit Points/ Units)	Contact hours per semester	No. of Students
2004-2005II	UKM/ Manufacturing Processes Lab	1	6	58
2004-2005I	UKM/ Mechanics of Materials	1	6	60
2003-2004I	UKM/Materials Engineering	1	6	59
2002-2003I	SUST/ Mechanics of Solids 1, IPE213	3	3	41
	SUST/ Thermodynamics I, IPE125	3	3	55
	SUST/Mechanics of Machineries, IPE221	3	3	51
	SUST/Engineering Drawing, IPE114	1	3	58
	SUST/Machine Drawing, IPE216	1	3	54
2001-2002II	SUST/Mechanics of Solids 2, IPE223	3	3	54
	SUST/Heat Transfer, IPE229	3	3	55
	SUST/Engineering Mechanics, IPE121	3	3	51
	SUST/Fluids Mechanics and Machineries, IPE223	3	3	48
	SUST/Numerical Analysis, IPE311	3	3	50
2001-2002I	SUST/Machine Design, IPE233	3	3	56
	SUST/Mechanics of Solids, IPE213	3	3	53
	SUST/Control Engineering, IPE413	3	3	53
2000-2001II	SUST/Mechanics of Solids 1, IPE213	3	3	52
	SUST/Fluid Mechanics and Machineries, IPE223	3	3	54
	SUST/Thermodynamics 1, IPE115	3	3	54
	SUST/Mechanics of Solids, IPE213	3	3	52
2000-2001I	SUST/Machine Design, IPE223	3	3	53
	SUST/Mechanics of Solids 1, IPE213	3	3	57
	SUST/Control Engineering, IPE413	3	3	50
1999-2000II	SUST/Numerical Analysis, IPE311	3	3	56
	SUST/Heat Transfer, IPE229	3	3	54
	SUST/ Mechanics of Machineries, IPE21	3	3	56
1999-2000I	SUST/Machine Design, IPE223	3	3	53
	SUST/Mechanics of Solids, IPE213	3	3	50
	SUST/Manufacturing Processes 2, IPE225	3	3	52
1998-1999II	SUST/Numerical Analysis, IPE311	3	3	51
	SUST/Heat Transfer, IPE229	3	3	54
	SUST/ Mechanics of Machineries, IPE221	3	3	53
	SUST/Fluid Mechanics and Machineries, IPE223	3	3	53
1998-1999I	SUST/Machine Design, IPE233	3	3	53
	SUST/Mechanics of Solids 1, IPE213	3	3	58

	SUST/Manufacturing Processes 2, IPE225	3	3	58
1997-1998II	SUST/Numerical Analysis, IPE311	3	3	54
	SUST/Heat Transfer, IPE229	3	3	58
	SUST/Fluid Mechanics and Machineries, IPE223	3	3	55
	SUST/ Mechanics of Machineries, IPE221	3	3	55
(Year/ semester)	Institute/Course name and code	Credit Points/ Units)	Contact hours per semester	No. of Students
1997-1998II	SUST/ Mechanics of Solids 1, IPE213	3	3	57
	SUST/ Mechanics of Machineries, IPE221	3	3	54
	SUST/Engineering Drawing, IPE114	1	3	45
	SUST/Machine Drawing, IPE216	1	3	38
	SUST/Control Engineering, IPE413	3	3	57
1996-1997II (Masters)	KUET/Elastic Stability of Structures, ME6117	3	3	15
1996-1997II	KUET/ Theory of machines, ME325	3	3	59
	KUET/ Power Plant Engineering, ME323	3	3	59
	KUET/ Mechanics of Materials 2, ME225	3	3	54
1996-1997I	KUET/ Mechanics of Materials 1, ME213	3	3	69
	KUET/Machine Design 1, ME315	3	3	63
	KUET/Fluid Mechanics 1, ME313	3	3	63
1995-1996II	KUET/Mechanics of Materials 2, ME225	3	3	69
	KUET/Machine Design 2, ME327	3	3	73
	KUET/ Theory of Machine, ME325	3	3	69
	KUET/ Engineering Drawing, ME114	1	3	58

SUPERVISION

POSTGRADUATE STUDENTS

	Name	Program	Role	Status
1	Mohd Fadzil bin Abdul Rahim	Masters	Co-supervisor	Completed, 2009
2	Hemin Mohammed Mohy Al-Deen	Masters	Supervisor	Completed, 2011
3	Mohamed Kamel Mohamed	PhD	Co-supervisor	Completed, 2011
4	Khalaf Ibraheem Hamada	PhD	Supervisor	Completed, 2012
5	Mohammad Ashikur Rahman Khan	PhD	Supervisor	Completed, 2012
6	Thamir Khalil Ibrahim	PhD	Supervisor	Completed, 2012
7	Nurul Hidayah Binti Razak	Masters	Supervisor	Completed, 2012
8	Syeda Nazia Hasany	PhD	Supervisor	Submitted thesis, 2015
9	Masood Kamal Qureshi	PhD	Supervisor	In progress
10	Emi Hafizzul Jamaluddin	Masters	Supervisor	In progress
13	Tahseen Ahmed Tahseen	PhD	Co-Supervisor	Completed, 2014
14	Zailini Bt Mohd Ali	Masters	Co-supervisor	In progress
15	Md. Rafiqul Islam	Masters	Co-supervisor	Completed, 2015
16	Yogeswaran A/L Muthusamy	Masters	Co-supervisor	Completed, 2015
17	Zainal Ariffin Bin Selamat	PhD	Co-Supervisor	In progress
18	Noor Safiqah Bt Mohd Sahid	Masters	Supervisor	In progress
19	Mohammad Mehedi Hasan	Masters	Supervisor	In progress

20	Hasrulazmi bin Hanafi	Masters	Supervisor	In progress
21	Noor Am Zura Binti Abdullah	Masters	Co-Supervisor	In progress

UNDERGRADUATE STUDENTS

1. Nurwani Binti Abd Razak (MC11002) Modeling of Material Removal Rate and Surface Roughness on Grinding of ductile cast iron using environmental friendly machining, Session 2013-14II
2. Muhammad Rosairi Shukri (MC10023) Optimization of Engine performance on HCCI engine with Biodiesel, Session 2013-14II
3. Mohd Khairul (MA10114) Experimental study on diesel engine combustion using biofuel, Session 2013-14II
4. Noor Safiqah (MA11024) – Optimization of grinding parameters of ductile iron using minimum quantity lubrication, Session 2013-14II
5. Abdul Muhaimin Bin Aris (MA09076) - Experimental investigation of the minimum quantity lubrication in end-milling of AA6061T6 by coated carbide tools , Session 2012-13I
6. Che Azral Izzuddin Bin Che Rudi (MA09013) Finite element based fatigue analysis of aluminium tailor welded blanks, Session 2012-13I
7. Lee Chee Wor (MA09039)- Stress and life prediction analysis of tailor welded blanks for dissimilar metals, Session 2012-13I
8. Mohd Khairil Hafizi Bin Khairulazhar (MA09031) - Cutting performance of different coatings cutting inserts during minimum quantity lubricant milling of AA6061T6, Session 2012-13I
9. Puvanesan A/L Muthusamy (MA09110) - Experimental investigation of minimum quantity lubrication on tool wear in aluminum alloy 6061-T6 using different cutting tools, Session 2012-13I
10. Nur Amirra Binti Rashid(MC09019) Dry machining and minimum quantity of lubrication of Aluminum Alloy 6061T6 using coated carbide tool, Session 2012-13I
11. Azma Salwani Ab Aziz (MA08033) – Optimization of Abrasive Machining of Ductile Cast Iron using water based Al₂O₃ nanoparticles: A Radial Basis Functions Approach. Session 2011-12
12. Zul Shukri Nawawi () – Modeling of material removal rate on grinding of ductile iron using water based Al₂O₃ nanocoolant. Session 2011-12
13. Muhammad Safwan Azmi (MA08032) – Optimization of Abrasive Machining of Ductile Cast Iron using water based SiC nanoparticles: A Multilayer Perceptron Approach. Session 2011-12
14. Mohd Sabarudin Sulong (MA08050) – Response Surface Modeling for Prediction of Grinding Machining Parameters of Ductile Iron using water based SiC nanoparticle. Session 2011-12
15. Mohd Syah Waliyullah Ad-Dahlawi Mat Razali (MA08124)-Optimization of Abrasive Machining of Ductile Cast Iron using water based ZnO nanoparticles: A Support Vector Machine Approach. Session 2011-12
16. Mohd Shamil bin Shaari (MH08086) – Design Optimization of Connecting Rod for Internal Combustion Engine. Session 2010-11
17. Fua Wai Loon (MA07107) – Fatigue life and Crack Growth analysis of Keyhole Specimen. Session 2010-11.
18. Annie Liew Ann Nee(ME07018) – Optimization of Machining Parameters of Titanium Alloy in Electric Discharge Machining based on Artificial Neural Network. Session 2010-11
19. Mohammad Abidullah bin Mohd Lasim (MA07093) – Finite Element based Fatigue Crack Growth of Cracked Plates under Axial Loading. Session 2010-11
20. Lee Wai Loon(ME07047)-Effect of electric Discharge Machining Process Parameters on Surface Topology. Session 2010-11.
21. Mohd Khairil Azirul Khairulazhar (MH06033), " Robust Design of Lower Suspension Arm using Stochastic Optimization" Session: 2008-09
22. Nur Farah Bazilah Wakhi Anuar (MH06044), " Design Optimization of Cylinder Head of Two-stroke Linear Engine" Session: 2008-09
23. Muhamad Hazrul Hakim Abu Shaari (MH06016), " Design of Process of Filling up an Automobile Fuel Tank: A Computational Method" Session: 2008-09
24. Adi Firdaus Hat (MH06050), " Modal and Dynamic Analysis of Connecting Rod of Linear Engine" Session: 2008-09
25. Fakhru Hafiz bin Mohd Barkhaya- Numerical study on boundary layer on moving flat plate using finite difference approach, Session 2007-08
26. Mohamad Khairul Izzuan B Mohd Idris – Numerical study of boundary layer flow due to a stationary flat plat, Session 2007-08
27. Syed Abdul Kadir bin Syed Khalid – Numerical solution of boundary layer problem due to moving flat plate using Runge-Kutta method, Session 2007-08

28. Helmee bin Mat Jusoh – The effect of nitriding on fatigue life of piston for two stroke engine, Session: 2007-08.
29. Ahmad Mazrul Kamarudin – The effect of surface treatment on fatigue life of piston using shot peening technique, Session: 2007-08.
30. Mohd Rezza bin Ahmad Radzi – Experiment study of spot welding on fatigue life of sheet metals, Session : 2007-08
31. Zulkifli bin Husin (MA06008) – Prediction of fatigue life on lower suspension arm subjected to variable amplitude loading, Session : 2007-08
32. Stanly Anak Kesulai – Investigate the Effect of Surface Treatment on the Fatigue Behavior of suspension arm, Session : 2007-08
33. Nor Azineer Bt Said- The role of nitriding treatment on the Fatigue Behavior of Stainless Steel cylinder head, Session: 2007-08
34. Mohd Khairul Zaman Bin Muhamad Zin – Prediction of Fatigue Life on Cylinder Head of the Two Stoke Engine subjected to variable Amplitude Loading using strain-life Approach, Session : 2007-08.
35. Muhammad Aliff bin Abdul Manan (MA05085)- Numerical Study on Fatigue Life of Spot Welded. Session: 2008-09
36. Hasbullah bin Ishak (MA05008)- Experimental Study on Fatigue Life of Spot Welded Compoments, Session: 2008-09

EDITORIAL ACTIVITIES /ACADEMIC PROFESSIONAL SERVICES

1. ASSOCIATE EDITOR-IN-CHIEF

1. International Journal of Automotive and Mechanical Engineering (IJAME), ISSN: 2229-8649 (Print); 2180-1606 (Online). **[Scopus Indexed, SNIP=2.108; SJR=0.406]**

2. MANAGING EDITOR

1. Journal of Mechanical Engineering and Sciences (JMES), ISSN: 2231-8380. **[Scopus Indexed]**

3. EDITORIAL BOARD MEMBERS

1. International Journal of Vehicle structure and Systems (IJVSS), ISSN: 0975-3060 (Print); 0975-3540 (Online) India
2. Journal of Control Engineering and Technology, ISSN: 2223-2036 (Print); 2225-6598 (online), Hong Kong
3. International Journal of Research in Engineering and Technology (IJRET), ISSN: 2277-4378; Thailand
4. Journal of Applied Sciences, ISSN: 1812-5662(Online); 1812-5654 (Print)
5. International Journal of Computational Engineering Research (ISSN : 2250-3005), India
6. International Journal of Mechanical Engineering (IJME), ISSN: 2277-7059, India
7. Scientific Journals International (Electrical, Mechanical, Manufacturing, Aerospace Engineering), USA, ISSN: 1556-6757.
8. International Journal of Mechanical Engineering and Research (IJMER), ISSN: 2277-8128
9. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies, Pekan, Malaysia
10. Proceedings of 1st National Conference in Mechanical Engineering for Research and Postgraduate Students, Pekan, Malaysia.
11. 2nd Malaysia Postgraduate Conference (MPC 2012), Bond University, Gold Coast , Australia, 7~9 July 2012

4. REVIEWERS

1. Material Letters, Elsevier
2. International Journal of Hydrogen Energy, Elsevier
3. Energy Conversion and Management, Elsevier

4. Applied Energy, Elsevier
5. Renewable and Sustainable Energy Reviews, Elsevier
6. Machining Science and Technology, Taylor and Francis
7. IEEE Journal of Neural Networks, Elsevier
8. Computational Modeling for Engineering and Sciences, USA
9. International Journal of Fatigue, Elsevier
10. Energy Policy, Elsevier Reviewer
11. Engineering Science and Technology: an International Journal
12. Journal of Applied Science and Engineering Technology, USA
13. International Journal of Natural Sciences and Engineering, Turkey
14. Journal of Applied Sciences
15. Asian Journal of Applied Sciences
16. Asian Journal of Scientific Research
17. Asian Journal of Materials Sciences
18. Trends in Applied Sciences Research, USA
19. International Journal of Engineering, Iran
20. Physical Science International Journal
21. IJUM Engineering Journal, Malaysia
22. Journal of Basic and Applied Research international
23. International Journal of Mechanical and Materials Engineering, Malaysia
24. International Journal of Acoustics and Vibration, USA
25. Journal of Engineering, Design and Technology, Emerald
26. Journal of Petroleum Technology and Alternative Fuels
27. African Journal of Biotechnology
28. Journal of Engineering Science and Technology (JESTEC), Malaysia
29. UTM Journal of Mechanical Engineering
30. WSEAS
31. 3rd International Conference on Modeling, Simulation and Applied Optimization (ICMSAO09), Sharjah, UAE
32. Seventh International Conference on Composite Science & Technology (ICCST/7), Sharjah, UAE
33. 2nd Regional Conference on Vehicle Engineering and Technology (RIVET 2008), 15-17 July 2008, Kuala Lumpur, Malaysia
34. International Conference on Advances in Materials and Processing Technologies (AMPT 2008), 2-5 November 2008, Manama, Bahrain
35. Asia Pacific Defence & Security Technology Conference (DSTC), 6-7 October 2009, Hotel Istana Kuala Lumpur, Malaysia
36. Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET 2009), 20~22 Jun, Ms Garden, Kuantan, Pahang, Malaysia
37. Asia Pacific Defence & Security Technology Conference (DSTC 2009), Universiti Putra Malaysia, 6~7 Oct, Kuala Lumpur
38. International Conference on Software Engineering and Computer Systems (ICSECS'09), 19~21 Oct, Swiss Garden Resort & Spa, Kuantan, Pahang, Malaysia
39. International Conference on Advances in Recent Technologies in Communication and Computing, (ARTCom'09), 27~28 Oct, IEEE-Computational Intelligence Society, India
40. 1st International Conference on Mechanical Engineering and Research (ICMER), 5-6 December 2011, Kuantan, Malaysia
41. IEEE Vehicle Power and Propulsion Conference 2010, Lille, Northern France, 1-3 September 2010
42. ICMSAO 2011 - International Conference On Modeling, Simulation And Applied Optimization 2011 - 19-21 April 2011, Kuala Lumpur, Malaysia
43. International Conference on Applications and Design in Mechanical Engineering (ICADME 2012), 27 - 28 February 2012 at Bayview Beach Resort, Penang, Malaysia.
44. 8th International Symposium on Mechatronics and its Applications (April 10-12, 2012 Sharjah, United Arab Emirates)

45. Advanced Mechanics and Materials" in conjunction with the Regional Conference on Automotive Research (ReCAR 2011) on the 14-15th Dec 2011 at the Royale Bintang, Kuala Lumpur
46. Sixth Jordanian International Chemical Engineering Conference, Amman/Jordan on March 12-14, 2012

CONFERENCE CHAIRMAN

1. 2nd National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010)

KEYNOTE SPEAKER/GUEST SPEAKER

1. **Keynote Speaker**, Seminar for the Programme of Manufacturing and Materials Engineering, IIUM, Malaysia, 25 November 2011.
2. **Guest Speaker**, Malaysia-Japan Tribology Meeting, UTM, Kuala Lumpur Campus, Malaysia, 27-28 August 2012
3. **Keynote Speaker**, High Performance Computing Seminar : CAD/CAE, Bay view Hotel, Penang, Malaysia, 5 December 2012.
4. **Speaker**, Research Methodology Workshop (Title: Formulating a Research Problem & Identifying Variables), 22-23 October 2012, organized by Universiti Malaysia Pahang
5. **Speaker**, Research Methodology Workshop (Title: Academic Publications), 22-23 February 2011, organized by Universiti Malaysia Pahang
6. **Speaker**, Course on Postgraduate Supervision (Title: Tec ACADEMIC WRITING TECHNIQUES and Thesis Format and Contents), 26-28 July 2011, organized by Universiti Malaysia Pahang.
7. **Speaker**, Research Methodology Workshop (Title: Technical Academic Writing), 22-24 February 2009, organized by Universiti Malaysia Pahang.
8. **Speaker**, Research Methodology Workshop (Title: Introduction to Academic Publications), 19-20 March 2014, organized by IPS, Universiti Malaysia Pahang.
9. **Speaker**, Research Methodology Workshop (Title: Introduction to Academic Publications), 18-19 December 2013, organized by IPS, Universiti Malaysia Pahang.
10. **Speaker**, "Tips and Technique for Fundamental Research Grant Scheme (FRGS) Application" Organized by Automotive Engineering Centre, UMP, 5th March 2014.
12. **Facilitator**, Workshop on Finite Element Analysis" organized by Automotive Engineering Centre, UMP, 3-5 September 2013

CONFERENCE SESSION CHAIRPERSON

1. Member of Proceedings, International Conference on Mechanical Engineering Research (ICMER 2015), Organized by Automotive Engineering Centre, UMP.
2. Chief of Proceedings, International Conference on Automotive Innovation and Green Energy Vehicle (AiGEV 2014), Organized by Automotive Engineering Centre, UMP.
3. 2nd Regional Engineering Conference on Sustainable Engineering Infrastructures Development & Management (ENCON08), 18-19 December 2008, Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia
4. 1st National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 25-36 may 2010
5. Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET 2009), 3-4 December 2010.
6. 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (NCMER 2010)
7. ASME 3rd International Conference on Mechanical and Electrical Technology, 26-27 August 2011, Dalian, China.
8. Regional Tribology Conference, 22-24 November 2011, Bayview Hotel Langakwi, Malaysia.
9. 1st International Conference on Mechanical Engineering Research, 5-7 December 2011, M.S. Garden, Kuantan, Pahang, Malaysia

ORGANIZING COMMITTEE MEMBER

1. Member of the Secretary, Seminar on Advanced Powder Metallurgy for Biomedical Applications" 27 February 2014, at KKTU Kuantu, Malaysia.
2. Scientific Advisory Committee, 8th Conference on Sustainable Development of Energy, Water and Environment Systems (UNESCO Sponsored Conference), (SDEWES 2013), September 22-27, Dubrovnik, Croatia.
3. Technical Committee, 3rd International Conference on Mechanical Production and Automobile Engineering (ICMPAE 2013), January 4-5, 2013, Indonesia.
4. Technical Committee, Session Chair, Fourth International Conference on Advances in Computer Engineering (ACE-2012), May 16-17, 2013, Amsterdam, Netherlands.
5. Technical Program Committee, International Conference on Sustainable Energy Information Technology (SEIT 2013), 25-28, 2013, Halifax Nova Scotia, Canada.
6. Technical Committee, 3rd International Conference on Trends in Mechanical and Industrial Engineering (ICTMIE 2013), January 8-9, 2013, Kuala Lumpur, Malaysia.
7. Technical Committee, Session Chair, International Conference on Advances in Electrical Measurements and Instrumentation Engineering (EMIE 2013), August 29-30, 2013, Frankfurt, Germany.
8. Technical Committee, Session Chair, Second International Conference on Research methodologies in Electronic Devices and Circuits (EDC-2013), May 16-17, Amsterdam, Netherlands.
9. Technical Committee, Session Chair, Third International Conference on Advances in Communication and Information Technology (CIT-2013), August 29-30, 2013, Frankfurt, Germany.
10. Technical Committee, Session Chair, Fourth International Conference on Advances in Computer Engineering (ACE-2013), May 16-17, 2013, Amsterdam, Netherlands.
11. Scientific Committee, World Academy of Science , Engineering and Technology Since 2009
12. Technical Committee, International Conference on Advances in Electrical and Mechanical Engineering (ICAEME 2012), December 18-19, 2012, Phuket, Thailand.
13. Technical Committee, Session Chair, Second International Conference on Advances in Communication and Information Technology (CIT-2012), November 22-23, 2012, Amsterdam, Netherlands.
14. Technical Committee, International Conference on Aerospace, Automotive and Mechanical Engineering (ICAAME 2012), December 8-9, 2012, Pattaya, Thailand.
15. Technical Committee, International Conference on Mechanical, Automobile and Robotics Engineering (ICMAR 2012), December 14-15, 2012, Singapore.
16. Technical Committee, International Conference on Metallurgical, Manufacturing and Mechanical Engineering (ICMMME'2012), December 26-27, 2012, Dubai, UAE.
17. Technical Committee, International Conference on Automotive and Materials Engineering (ICAME 2012), November 27-28, 2012, Penang, Malaysia.
18. Technical Committee, Session Chair, Third International Conference on Advances in Computer Engineering (ACE-2012), June 7-8, 2012, Amsterdam, Netherlands.
19. Technical Committee, International Conference on Innovations in Electronics and Energy Engineering (ICIEEE 2012), December 14-15, 2012, Singapore.
20. Technical Committee, International Conference on Systems, Signal Processing and Electronics Engineering (ICSSEE 2012), December 26-27, 2012, Dubai, UAE.
21. Technical Committee, Session Chair, International Conference on Advances in Communication and Information Technology (CIT-2011), December 01-02, 2011, Amsterdam, Netherlands
22. Technical Committee, Session Chair, International Conference on Advances in Electrical Measurements and Instrumentation Engineering (EMIE 2012), November 22-23, 2012, Amsterdam, Netherlands.
23. Technical Committee, 1st International Conference on Mechanical Engineering and Research, 5-6 December 2011.
24. Technical Committee, Session Chair, International Conference on Advances in Computer Engineering (ACE-2010), June 21-22, 2010, Bangalore, India.
25. Technical Committee, 1st National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010)
26. Proceedings Sub-committee, National Conference on Post-Graduate Research (NCON-PGR) 2009, UMP, Kuantan, Malaysia
27. Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET 2009)

28. Secretariat Member, National seminar on NVC-CEM-APSIM, 17-18 May 2005, Esset-Bangi, Malaysia.
29. Panel Member, Postgraduate Poster Competition, UMP, ASTAKA 7 April 2011
30. Panel Member, Evaluation of PhD student, CGS, 2009.

ASSESSOR

1. Jawatan Profesor Gred Khas C VK7, UKM, 2010
2. Assocaite Professor, Faculty of Engineering, Dhofar University, Oman

INTERNAL/EXTERNAL THESIS EXAMINER

1. S. M. Ashraful Rahman, "Assessing the Effect of Pulm, Jatropha and Calophyllium Biodiesel blends on idling of a compression ignition Engine" Masters in Mechanical Engineering, Universiti Malaya, Kuala Lumpur, Malaysia, 2015.
2. Rozman bin Mohd Tahar, Masters in Scince (Advanced Materials), Universiti Malaysia Pahang, 2015
3. Nur Atiqah Binti Abdul Rahman Azmil (G1020410), "Modeling of Vibration on System parameter for High Speed Micro End Milling of PMMA" Masters in Mechanical Engineering, International Islamic University of Malaysia, 2014.
4. Ezrann Zharif Zainal Abidin, "Investigation of Starting Behaviour of A Free Piston Linear Generation Engine" Msc Eng (Mechancial), Universiti Teknologi Petronas, 2014
5. Mohd Asri Yusoff, "Reliability assessment of mass produced automotive component under loads of extreme fatigue life" PhD, Universiti Kebangsaan Malaysia, Bangi, Malaysia, 2013.
6. S. Sivakumar, "A study on the Operational Effeciency of Dairy Supply Chain in Taminaru, India" PhD, ANNA University, Chennai, India, 2013.
7. Janakiraman V., "Concurrent Optimization of Operating Parameters and Tolerances for CNC Machining Processes" PhD, ANNA University, Chennai, India, 2012.
8. Semin, " Influence of Fuel Angle Spray Nozzle Toward Power and SFOC of Diesel Engine, PhD Program, Universiti Malaysia Pahang, Malaysia, 2009.
9. Nik Mohd Izual bin Nik Ibrahim, Effect of Pressure on the Scavenging Process for Two-stroke Spark Ignition Engine, M. Sc. Eng., Universiti Malaysia Pahang, Sept 2007.
10. Awang bin Idris, "Effect of Compressed Natural Gas on Performance and Emission of 4-Stroke Spark Ignition Engine" M Sc. Eng.(Automotive), Universiti Malaysia Pahang, Malaysia, 2009.
11. Mohammad Hadi Hafezi (P49864)- The Study on Reliability Analysis of Fatigue Crack Failure of Metallic Component under Spectrum Loadings. Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, 2012.
12. Mohd. Noor Baharin Che Kamarudin (P49893)-Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, 2012.
13. Mohammad Izadi Najafabadi(GS31644), " Ignition Timing Estimation of Homogeneous Charge Compression Ignition Engine using Computational and Experimental Methods" Masters of Science in Mechaical Engineering, Universiti Putra Malaysia, Selangor, Malaysia, 2013.

AWARDS RECEIVED

1. **Research Award: Gold Model** (Eco-Nano-Coolant For Manufacturing Cutting Process), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
2. **Research Award: Silver Model** (Hybrid Intelligent Non-Conventional Machining For Biomedical Materials), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
3. **Research Award: Silver Model** (Tribological Engine Wear Tester), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
4. **Research Award: Silver Model** (A New Heat Transfer Characterization Model of Fins For Wind Tunnel), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
5. **Research Award: Silver Model** (A Novel Heat Transfer Model for Eco-Friendly Zero Emission Engine), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
6. **Research Award: Silver Model** (Hybrid Nano-coolant), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015

7. **Research Award: Silver Model** (Hybrid Multi-axial Fatigue Life Analyzer Based on Continuum Mechanics and Genetic Algorithm), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
8. **Research Award: Silver Model** (Advance Motorized Car Jack), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
9. **Research Award: Bronze Model** (Environmental-Friendly Near-Dry Machining System for Aluminum Alloy Metal Removal Processes), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
10. **Research Award: Bronze Model** (Waste Cooking Oil), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 9-10 March, 2015
11. **Cendekia Bitara Excellent Award** - Title: Characteristics of the time-averaged overall heat transfer in a Direct Injection Hydrogen Fueled Engine, **Journal Publication Category, 2013.**
12. **Cendekia Bitara Excellent Award** - Title: Effect of mixture strength and injection timing on combustion characteristics of a direct injection hydrogen fueled engine, **Journal Publication Category, 2013.**
13. **Cendekia Bitara Excellent Award** - Title: Parametric Study of Instantaneous Heat Transfer based on Multidimensional Model in Direct-Injection Hydrogen-Fueled Engine, **Journal Publication Category, 2013.**
14. **Research Award: Silver Model** (A Novel Approach to Empirical Correlations of Heat Transfer Loading Capacity for Low Speed Wind Tunnel), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 5-6 March, 2014
15. **Research Award: Silver Model** (Nano-enhanced Coolant for Environmental-Friendly Machining), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 5-6 March, 2014
16. **Research Award: Bronze Model** (Genetic Algorithm based Multi-axial Fatigue life Analyzer), Creation, Innovation, Technology and Research exposition (CiTrex2014), Sports Complex, UMP, 5-6 March, 2014
17. **Cendekia Bitara Excellent Award** - Title: Time-averaged heat transfer correlation for direct injection hydrogen fueled engine, **Journal Publication Category, 2012.**
18. **Cendekia Bitara Excellent Award** - Title: Artificial Neural Network Model For Material Removal Rate of Ti-15-3 In Electrical Discharge Machining, **Journal Publication Category, 2012.**
19. **Cendekia Bitara Excellent Award** - Title: Modeling of SI Engine For Dual Fuels of Hydrogen, Gasoline and Methane with Port Injection Feeding System, **Journal Publication Category, 2012.**
20. **Cendekia Bitara Excellent Award** - Title: Influence of Engine Speed and Mixture Strength on Instantaneous Heat Transfer for Direct Injection Hydrogen Fuelled Engine, **Journal Publication Category, 2012.**
21. **Cendekia Bitara Merit Award** - Title: Thermal impact of operating conditions on the performance of a combined cycle gas turbine, **Journal Publication Category, 2012.**
22. **Cendekia Bitara Merit Award** - Title: Study on Effective Parameter of the Triple-Pressure Reheat Combined Cycle Performance, **Journal Publication Category, 2012.**
23. **Cendekia Bitara Merit Award** - Title: Optimization of Surface Roughness in End Milling using Potential Support Vector Machine, **Journal Publication Category, 2012.**
24. **RESEARCH AWARD: BRONZE MODEL:** Project title: Hybrid Intelligent Model On Pattern Recognition For EDM, Creation, Innovation, Technology & Research Exposition (CITREx 2012), Sports Complex, Universiti Malaysia Pahang, 26-28 March 2012.
25. **RESEARCH AWARD: BRONZE MODEL:** Project title: Novel Heat Transfer Model For Environmental Friendly Hydrogen-Fuelled Engine, Creation, Innovation, Technology & Research Exposition (CITREx 2012), Sports Complex, Universiti Malaysia Pahang, 26-28 March 2012.
26. **KEY OF MECHANICAL ENGINEERING SUCCESS** Awarded by American BIOGRAPHICAL Institute, USA, June 15, 2012.
27. **Cendekia Bitara Merit Award** - Title: Heat Transfer of Intake Port for Hydrogen Fueled Port Injection Engine: A Steady State Approach, **Journal Publication Category, 2011.**
28. **Cendekia Bitara Merit Award** - Title: Particle Swarm Optimization Prediction Model for Surface Roughness, **Journal Publication Category, 2011.**
29. **Cendekia Bitara Merit Award** - Title: Engine Performance and Optimum Injection Timing for 4-Cylinder Direct Injection Hydrogen Fueled Engine, **Journal Publication Category, 2011.**
30. **Cendekia Bitara Merit Award** - Title: Thermodynamic Performance Analysis of Gas Turbine Power Plant, **Journal Publication Category, 2011.**
31. **Cendekia Bitara Merit Award** - Title: Improvement of Gas Turbine Performance based on Inlet Air Cooling Systems: A Technical Review, **Journal Publication Category, 2011.**
32. **Cendekia Bitara Merit Award** - Title: Heat Transfer of Intake Port for Hydrogen Fueled Port Injection Engine: A Steady State Approach, **Journal Publication Category, 2011.**

33. **Cendekia Bitara Merit Award** - Title: Support Vector Machine Learning Method to Predict Recycling Strategy for Electronic Equipments, **Research Product Category, 2010** (Malaysia Technology Expo (MTE) 2010, Member, 4~6 Feb, PWTC, Kuala Lumpur.)
34. **Cendekia Bitara Merit Award** - Title: Study on the Effective Parameter of Gas Turbine Model with Intercooled Compression Process, **Journal Publication Category, 2010.**
35. **Cendekia Bitara Merit Award** - Title: Jackcar using Internal Car Power, **Research Product Category, 2009, ITEX2009.**
36. **Cendekia Bitara Merit Award** - Title: New Technique for Laser-micromachining of MEMS Components, **Research Product Category, 2009.**
37. **Cendekia Bitara Merit Award** - Title: UMP Genetic Algorithms Software for Machining of Blow Mould and A new Machining Mould Algorithm based on Response Ant Colony (RACA), **Research Product Category, 2009.**
38. **MAN OF THE YEAR** for dedication and excellence, American BIOGRAPHICAL Institute, 29 July 2011
39. **MARQUIS WHO'S WHO IN THE WORLD, 2011**
40. **GREAT MINDS OF THE 21ST CENTURY** due to significant accomplishments within and mastery of ENGINEERING, American Biographical Institute. 2011. Reserved for accomplishments and influence are results of superior condition of the intellect.
41. **PINNACLE ACHIEVEMENT OF ENGINEERING** (Accomplished Leader of Influence), American Biographical Institute. 2011. **INTERNATIONAL PROFILES OF ACCOMPLISHED LEADERS.**
42. **Cendekia Bitara Merit Award** - Title: Finite Element based Vibration Fatigue Analysis for A New Free Piston Engine Component, **Journal Publication Category, 2010**
43. **BRONZE Medal, Title:** Support Vector Machine Learning Method to Predict Recycling Strategy for Electronic Equipments, Malaysia Technology Expo (MTE) 2010, Member, 4~6 Feb, PWTC, Kuala Lumpur.
44. **BRONZE Medal, Title:** CarJack Using Internal Car Power, Member, 20th International Invention, Innovation and Technology, Exhibition (ITEX2009) 15-17 May 2009.
45. **SILVER Medal, Title:** UMP Genetic Algorithms Software for Machining of Blow MOULD", Member (ITEX 2009), 15-17 May 2009.
46. **BRONZE Medal, Title:** New Technique for Laser-MicroMachining of MEMS Components, Member (ITEX 2009), 15-17 May 2009.
47. **Cendekia Bitara Merit Award** - Title: Finite Element based Vibration Fatigue Analysis for A New Free Piston Engine Component, **Journal Publication Category, 2009**
48. **Cendekia Bitara Merit Award** - Title: Finite element based fatigue life prediction of cylinder head for two-stroke linear engine using stress-life approach, **Journal Publication Category, 2008.**
49. **Cendekia Bitara Merit Award** - Title: Finite element based fatigue life prediction of a new free piston engine mounting, **Journal Publication Category, 2008.**
50. **Cendekia Bitara Merit Award** - Title: A Review on Finite Element Analysis Approaches in Durability Assessment of Automotive Components, **Journal Publication Category, 2008.**
51. **Cendekia Bitara Merit Award** - Title: Assessment of fatigue life behavior of cylinder block for free piston engine using frequency response approach, **Journal Publication Category, 2008.**
52. **Cendekia Bitara Merit Award** - Title: Fatigue Life Prediction of Spot-Welded Structures: A Finite Element Analysis Approach, **Journal Publication Category, 2008.**
53. **Bronze Award**, International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX 2005), May 2005,
54. **Merit Scholarship**, Undergraduate program, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh. Duration: August 1989 to July 1993
55. **Board Merit Scholarship**, Higher Secondary Education Board, Jessore, Bangladesh ; Duration: July 1988 to June 1992.

SERVICE TO THE UNIVERSITY/ADMINISTRATIVE WORK EXPERIENCES

Committee	Role	Duration
"Seminar on Advanced powder Metallurgy for Biomedical Application" at KKTU, Kuantan	Participant	27 February 2014
SENATE STANDING COMMITTEE MEETING OF GRADUATE STUDIES, UMP	CO-OPT MEMBER	13 April 2011-14 July 2011
Panel Pembantuan Pembelajaran & Pengajaran, FKM, UMP	Member	Semester 2010/2011 II

Publication Committee, FKM	Coordinator	01 April 2011- 31 December 2011
Graduate Studies Prospectus Preparation, CGS, UMP	Member	Session 2010/2011II
SMC, Sapura Industrial, Bangi	Research Fellow	19 February 2010 to date
Sub-Committee of Policy making of CGS, UMP	Member	2008-2010
Penilai Permohonan Geran Penyelidikan FRGS RMK9 UMP	Panel Member	21 April 2008
Mesyyarat Pengurusan Fakulti Kejuruteraan Mekanikal	Member	30 December 2010- December 2011
Quality Unit, FKM, UMP	Coordinator	01 February 2008-31 August 2009
Steering Committee, Centre for Graduate Studies, UMP	Member	September 01 2007 to date
Publication Committee, FKM	Coordinator	May 2011 – April 2012
Research Grant Assessment Committee, FKM, UMP, Malaysia	Panel Member	Session 2009/2010
Post-Graduate Program, FKM, UMP	Coordinator	Session: 2009/2010
Industry Advisory Panel (IAP) FKM, UMP, Malaysia	Member	18 February 2009-17 February 2010
Faculty Technical Committee FKM, UMP, Kuantan	Member	Session: 2009/2010
Task Force MS ISO 9001:2000 (P&P) FKM, UMP, Malaysia	Member	3 February 2009-2 February 2010
EAC Task-Force, FKM, UMP	Member	10 April 2008-9 April 2009
Penilai Geran Penyelidikan FKM	Panel Member	March 2009-February 2010
Faculty Academic and Examination Committee	Member	11 June 2007-10 June 2010
Technical Review MUCEET 2009	Member	MUCEET 2009
Faculty Technical Committee, FKM	Member	01 February 2009-31 January 2010
Technical Committee (Proceedings and Journal Publication), 1 st NCMER 2010	Chairman	2010
Penilaian Tahap Pertama Kajian Pelajar Siswazah, CGS, UMP	Panel member	09 September 2008
EXCO Tugas-Tugas Khas, UMP AUTOSHOW 2009	Advisor	2009
Faculty Quality Committee	Coordinator	June 01 2008 to MAY 2009
Final Year Project (Degree/Diploma)	Coordinator	July, 2007 to April 30 2008
EAC Task-Force Sub Group (CQI, Assessment, Survey Sub-group, Faculty of Mechanical Engineering, UMP, Malaysia)	Leader	2009
Technical Committee (Post Proceedings) for 1 st NCMER 2010	Chairman	2010
Graduate Student Research Methodology Course, CGS, UMP	Facilitator/Speaker	23-24 February 2011
Graduate Student Research Methodology Course, CGS, UMP	Facilitator/Speaker	22-24 February 2010
Research Methodology Course, SMC, Sapura Industrial, bangi, Malaysia	Speaker	17-18 March 2011
Oral Examination (Viva-Voce) for Postgraduate Student Nor Ilia Anisa binti Aris Faculty of Chemical Engineering, UMP	Chairman	19 March 2011
Oral Examination (Viva-Voce) for Postgraduate Student Norasihabinti Hamid Faculty of Chemical Engineering, UMP	Chairman	25 November 2010
Oral Examination (Viva-Voce) for Postgraduate	Chairman	26 April 2011

Student Norasihabinti Hamid Faculty of Civil Engineering, UMP		
Department of Industrial and Production Engineering Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh	Head of the Department	April 04, 1998 to May 05, 2001
Shah Paran Hall, Shahjalal University of Science and Technology, Bangladesh	Assistant Provost (Deputy Principal)	August 2000- October 2002.
Central Admission Committee Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh	Executive Member	Session 1999-2000
Central Admission Committee Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh	Member Secretary	Session 2000-2001
Central Admission Committee Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh	Executive member	Session 2001-2002
Semester ordinances modification committee Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh	Executive Member	2001
Lecturer and Assistant Professor in the department of Industrial and Production Engineering formed by SUST authority. Sylhet, Bangladesh	Member, Selection committee	1998-2001
Post of Instructor of Workshop for the department of Industrial and Production Engineering formed by SUST authority. Sylhet, Bangladesh	Member Selection committee	1998-2001
Post of Chief Instructor of Workshop in the department of Industrial and Production Engineering formed by SUST authority , Sylhet, Bangladesh	Member Selection committee	1998-2001
Post of Operator Mechanics of Workshop in the department of Industrial and Production Engineering formed by SUST authority, Sylhet, Bangladesh	Member Selection committee	1998-2001
Post of Laboratory Assistant in the department of Industrial and Production Engineering formed by SUST authority, Sylhet, Bangladesh	Member Selection committee	1998-2001
Post of Laboratory Assistant in the department of Industrial and Production Engineering formed by SUST authority, Sylhet, Bangladesh	Member Selection committee	1998-2001
Post of Laboratory Assistant in the department of Industrial and Production Engineering formed by SUST authority	Member Selection committee	1998-2001
Post of Laboratory Attendant in the department of Industrial and Production Engineering formed by SUST authority	Member Selection committee	1998-2001
Post of Workshop Attendant in the department of Industrial and Production Engineering formed by SUST authority	Member Selection committee	1998-2001
Post of Office Assistant in the department of Industrial and Production Engineering formed by SUST authority	Member Selection committee	1998-2001
Post of Office Peon in the department of Industrial and Production Engineering formed by SUST authority	Member Selection committee	1998-2001
Final Year Thesis	Coordinator	May 1998 – May 2001

Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh		
Industrial Training, Third year student Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Coordinator	May 1998 – July 2002
Examination Committee, 4 th year Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Chairman	Session 1995-1996
Examination Committee, 4 th year Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Chairman	Session 1996-1997
Examination Committee, 4 th year, Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Chairman	Session 1997-1998
Examination Committee, 4 th year Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Chairman	Session 1998-1999
Examination Committee, 1 st year 2 nd semester Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Chairman	Session 1996-1997
Departmental Library Committee Department of Industrial and Production Engineering, SUST, Sylhet, Bangladesh	Chairman	May 1998- April 2003

LIST OF PUBLICATIONS (INTERNATIONAL JOURNALS/BOOK CHAPTER)

ARTICLE IN BOOK/ BOOK CHAPTERS

1. **M.M. Rahman**, Md. Ashikur Rahman Khan, K. Kadirgama, M.M. Noor and Rosli A. Bakar. 2010. Mathematical Modeling of material Removal Rate for Ti-5Al-2.5Sn through EMD Process: A Response Surface Method. Advances in Control, Chemical Engineering, Civil Engineering and Mechanical Engineering, pp. 34- 37 (**ISI/SCI indexed**).
2. **M.M. Rahman**, Md. Ashikur Rahman Khan, K. Kadirgama, M.A. Maleque and Rosli A. Bakar. 2011. Parametric Optimization in EDM of Ti-6Al-4V using Copper Tungsten Electrode and Positive Polarity: A Statistical Approach. Mathematical Methods and Techniques in Engineering and Environmental Science, 23-29 (**ISI/SCI indexed**).
3. **M.M. Rahman**, Md. Ashikur Rahman Khan, K. Kadirgama and Rosli A. Bakar. 2011. Prediction of Material Removal Rate for Ti-5Al-2.5Sn in EDM using MultiLayered Perceptron Neural Network Technique. Recent Researches in Neural Networks, Fuzzy Systems, Evolutionary Computing and Automation, pp. 17-23 (**ISI/SCI indexed**).
4. Rosli A. Bakar, K. Kadirgama, **M.M. Rahman**, K.V. Sharma and Semin. 2012. Application of Natural gas for Internal Combustion Engines. (Chapter 18). In: Advances in Natural Gas Technology. InTech Publications, pp. 453-478.
5. K. Kadirgama, R.A. Bakar, **M.M. Rahman**, B. Mohamad. 2012. Modeling of residual stress (Chapter 14). In: Finite element analysis- From biomedical applications to industrial developments. InTech Publications, pp. 369-378.

INTERNATIONAL JOURNALS

YEAR 2015

6. Tahseen Ahmad Tahseen, M. Ishak, M.M. Rahman, "An overview on thermal and fluid flow characteristics in a plain plate finned and un-finned tube banks heat exchanger" International Communications in Heat and Mass Transfer, 50: 85-97, 2014 (**SCI, Q1, IF =2.208**).

YEAR 2014

7. Tahseen Ahmad Tahseen, M. Ishak, M.M. Rahman, "Performance predictions of laminar Heat Transfer and Pressure Drop in An in-line Flat Tube Bundle using an

- Adaptive Neuro-fuzzy inference System (ANFIS) Model" International Communications in Heat and Mass Transfer, 50: 85-97, 2014 **(SCI, Q1, IF =2.208)**.
8. K. Kadirgama, M.M. Rahman, B. Mohamed, R.A. Bakar, A.R. Ismail. 2012. Development of temperature statistical model when machining of aerospace alloy materials. Thermal Science–International Scientific Journal. 18: S269-S282, 2014**(SCI Indexed, Q3, IF=1.09)**
 9. Khan, M.A.R., Rahman, M.M., Kadirgama, K., "An experimental investigation on surface finish in die-sinking EDM of Ti-5Al-2.5Sn" International Journal of Advanced Manufacturing Technology. In press, November, 2014 **(SCI, IF = 1.779/Q2)**
 10. Tahseen, T.A., Ishak, M., Rahman, M.M., "An experimental study of heat transfer and friction factor characteristics of finned flat tube banks with inline tubes configurations". Applied Mechanics and Materials, 564:197-203, 2014 **(Scopus Indexed)**.
 11. Hamada, K.I., Rahman, M.M., "An experimental study for performance and emissions of a small four-stroke SI engine for modern motorcycle". International Journal of Automotive and Mechanical Engineering, 10: 1852-1865, 2014 **(Scopus Indexed)**.
 12. Hamada, K.I., Muhammed, M.K., Rahman, M.M., "Development of a test-rig for a modern motorcycle engine". International Journal of Automotive and Mechanical Engineering, 10: 2034-2041, 2014 **(Scopus Indexed)**.
 13. Kamal, M., Rahman, M.M., "Fatigue life estimation models: A state of the art". International Journal of Automotive and Mechanical Engineering, 9:1599-1608 **(Scopus Indexed)**.
 14. Rahman Khan, Md. A., Rahman, M.M., Kadirgama, K., "Neural network modeling and analysis for surface characteristics in electrical discharge machining". Procedia Engineering, 90: 631-636, 2014 **(Scopus Indexed)**.
 15. Razak, N.H., Rahman, M.M., Kadirgama, K., "Experimental study on surface integrity in end milling of Hastelloy C-2000 superalloy". International Journal of Automotive and Mechanical Engineering, 9: 1578-1587 **(Scopus Indexed)**.
 16. Puvanesan, M., Rahman, M.M., Najiha, M.S., Kadirgama, K., "Experimental investigation of minimum quantity lubrication on tool wear in aluminum alloy 6061-T6 using different cutting tools". International Journal of Automotive and Mechanical Engineering, 9:1538-1549, 2014 **(Scopus Indexed)**.
 17. Khan, M.A.R., Rahman, M.M., Kadirgama, K., "Electrode wear rate of graphite electrodes during electrical discharge machining processes on titanium alloy Ti-5Al-2.5Sn". International Journal of Automotive and Mechanical Engineering, 9: 1782-1792, 2014 **(Scopus Indexed)**.
 18. Ibrahim, T.K., Rahman, M.M., "Effect of compression ratio on the performance of different strategies for the gas turbine". International Journal of Automotive and Mechanical Engineering, 9: 1747-1757, 2014 **(Scopus Indexed)**.
 19. Tahseen, T.A., Ishak, M., Rahman, M.M., "An experimental study of heat transfer and friction factor characteristics of finned flat tube banks with in-line tubes configurations". Applied Mechanics and Materials, 564: 197-203, 2014 **(Scopus Indexed)**.
 20. Rahman, M.M., Kadirgama, K., Ab Aziz, A.S., "Artificial neural network modeling of grinding of ductile cast iron using water based SiO₂ nanocoolant". International Journal of Automotive and Mechanical Engineering, 9:1649-1661 **(Scopus Indexed)**.
 21. Kamil, M., Rahman, M.M., Bakar, R.A., "An integrated model for predicting engine friction losses in internal combustion engines". International Journal of Automotive and Mechanical Engineering, 9: 1695-1708, 2014 **(Scopus Indexed)**.
 22. Tahseen, T.A., Rahman, M.M., Ishak, M., "Heat transfer and pressure drop prediction in an in-line flat tube bundle by radial basis function network". International Journal of Automotive and Mechanical Engineering, 10: 2003-2015, 2014 **(Scopus Indexed)**.
 23. Kamal, M., Rahman, M. M., "Finite element-based fatigue behaviour of springs in automobile suspension". International Journal of Automotive and Mechanical Engineering, 10: 1910-1919, 2014 **(Scopus Indexed)**.
 24. Tahseen, T.A., Rahman, M.M., Ishak, M., "An experimental study of air flow and heat transfer over in-line flat tube bank". International Journal of Automotive and Mechanical Engineering. 9(1): 1487-1500 **(Scopus Indexed)**.
 25. M.M. Rahman and K. Kadirgama, "Performance of Water-based Zinc Oxide Nanoparticle Coolant during Abrasive Grinding of Ductile Cast Iron. Journal of Nanoparticles", Volume 2014, Article ID 175896, 7 pages, 2014.

26. Md Ashikur Rahman Khan, M.M. Rahman, "Surface Study in a Non-conventional (Electrical Discharge Machining) Process for Grade 6 Titanium Material". Jurnal Teknologi, 68(1): 89-93, 2014 **(Scopus Indexed)**.
27. Thamir K. Ibrahim and M.M. Rahman, "Effective parameters on Performance of Multipressure combined cycle power plants", Advanced in Mechanical Engineering, Volume 2014, Article ID781503, 13 Pages, 2014 **(SCI Indexed, Q2, IF = 1.062)**.
28. S. Zainal Ariffin, Ahmad Razlan Yusuf and M.M. Rahman, "The effect of various orifice nozzle coolant on surface roughness performance in CNC turning", Advanced Materials Research, 903: 169-174, 2014 **(Scopus Indexed)**.
29. Kumaran, Kadirgama and M., Yogeswaran, S., Thiruchelvam and Rahman, Md. Mustafizur, "Mathematical Modeling for Surface Roughness When Milling AISI 304 Stainless Steel", Jokull Journal, 65 (4). pp. 1-9. **(SCI Indexed, Q3, IF=1.00)**, 2014.
30. Kumaran, Kadirgama, Muthusamy, Yogeswaran, S. , Thiruchelvam and Rahman, Md. Mustafizur, "Prediction of Grinding Machinability When Grind P20 Tool Steel Using Water Based ZnO Nano-Coolant", Jokull Journal, 66 (5). **(SCI Indexed, Q3, IF=1.00)**, 2014.

YEAR 2013

31. M. Kamal, M.M. Rahman and M.S.M. Sani. (2014). Fatigue Life Prediction Using Simplified Endurance Function Model. Advances in Mechanical Engineering. Volume 2013 (2013), Article ID 581754, 12 pages (SCI Indexed, Q2, IF= 1.062)
32. Khalaf I. Hamada, M. M. Rahman and A. Rashid A. Aziz. 2013. Parametric Study of Instantaneous Heat Transfer based on Multidimensional Model in Direct-Injection Hydrogen-Fueled Engine. International Journal of Hydrogen Energy, 38(28): 12465-12480, **(SCI Indexed, Q1, IF = 4.053)**
33. Khalaf I. Hamada, **M.M. Rahman**, and A. Rashid A Aziz. 2013. Characteristics of the time-averaged overall heat transfer in a Direct Injection Hydrogen Fueled Engine. International Journal of Hydrogen Energy, 38(11): 4816-4830 **(SCI Indexed, Q1, IF = 4.053)**.
34. Khalaf I. Hamada, **M.M. Rahman**, Rosli A. Bakar and A. Rashid A Aziz. 2012. Effect of mixture strength and injection timing on combustion characteristics of a direct injection hydrogen fueled engine. International Journal of Hydrogen Energy, 38(9): 3793-3801 **(SCI Indexed, Q1, IF = 4.053)**.
35. Thamir K. Ibrahim and M. M. Rahman. 2013. Study on Effective Parameter of the Triple-Pressure Reheat Combined Cycle Performance. Thermal Science. 17(2): 497-508 **(SCI Indexed, Q3, IF =0.872)**.
36. M. Kamal, Md.Mustafizur Rahman and M.S.M. Sani. 2013. Application of Multibody Simulation for Fatigue Life Estimation. International Journal of Automotive and Mechanical Engineering, 7: 912-923 (SCOPUS Indexed).
37. Najiha M.S., M.M. Rahman and A.R. Yusoff . 2013. Modeling of the End Milling Process for Aluminum Alloy AA6061t6 using HSS Tool. International Journal of Automotive and Mechanical Engineering , 8: 1140-1150 (Scopus Indexed)
38. Mohammed Kamil, M.M. Rahman and Rosli A. Bakar. 2013. Integrated Simulation Model for Composition and Properties of Gases in Hydrogen Fueled Engine. International Journal of Automotive and Mechanical Engineering, 8:1242-1255 (Scopus Indexed)
39. Thamir K. Ibrahim and M.M. Rahman. 2013. Effects of Isentropic Efficiency and Enhancing Strategies on Gas Turbine Performance. Journal of Mechanical Engineering and Sciences, 4: 383-396 (EBSCO indexed)
40. Tahseen A Tahseen, M.Ishak and M.M Rahman. 2013. Numerical Study Laminar Forced Convection of Air In-line Bundle of Cylinders Crossflow. Asian Journal of Scientific Research, 6 (2): 217-226 (SCOPUS Indexed)
41. M. Ishak, Tahseen Ahmad Tahseen and M M Rahman. 2013. Experimental investigation on heat transfer and pressure drop characteristic of air flow over a staggered flat tube bank in crossflow. International Journal of Automotive and Mechanical Engineering, 7: 900-911 (Scopus Indexed)
42. Tahseen Ahmad Tahseen, M.Ishak and M M Rahman. 2013. Laminar forced convection heat transfer over staggered circular tube banks: A CFD Approach. Journal of Mechanical Engineering and Sciences , 4: 418-430 (EBSCO Indexed)
43. Md. Ashikur Rahman Khan, M. M. Rahman, K. Kadirgama. 2013. Artificial Intelligent Approach for Machining Titanium Alloy in a Nonconventional Process. World

- Academy of Science, Engineering and Technology- International Journal of Mathematical, Computational Science and Engineering, 7(11): 1267-1272.
44. Md. Ashikur Rahman Khan, M. M. Rahman, K. Kadirgama. 2013. Development of Regression Equation for Surface Finish and Analysis of Surface Integrity in EDM. World Academy of Science, Engineering and Technology- International Journal of Mathematical, Computational Science and Engineering, 7(3): 893-897.
 45. K. Kadirgama, M.M. Rahman and Z. Ghazali. 2013. Optimization of Heat affected Zone for Air Plasma Cutting Process: A Support Vector Machine Approach. International Journal of Artificial Intelligence and Mechatronics, 2(1): 13-18.

YEAR 2012

46. Mohammed Kamil, **M.M. Rahman**, Rosli A. Bakar and K. Kadirgama. 2012. Modeling of SI Engine For Dual Fuels of Hydrogen, Gasoline and Methane with Port Injection Feeding System. Energy Education Science and Technology Part A: Energy Science and Research, 29(2): 1399-1416, **(SCI indexed, IF= 31.667, Q1)**.
47. M.A.R. Khan, **M.M. Rahman** K. Kadirgama and R.A. Bakar. 2012. Artificial Neural Network Model For Material Removal Rate of Ti-15-3 In Electrical Discharge Machining. Energy Education Science and Technology Part A: Energy Science and Research 29(2): 1025-1038, **(SCI indexed, IF= 31.667, Q1)**.
48. Khalaf I. Hamada, **M.M. Rahman**, A. Rashid A. Aziz. 2013. Influence of Engine Speed and Mixture Strength on Instantaneous Heat Transfer for Direct Injection Hydrogen Fuelled Engine. Energy Education Science and Technology Part A: Energy Science and Research, 30(2): 805-824 **(SCI indexed, IF= 31.667, Q1)**.
49. T.A. Tahseen, M. Ishak and M.M. Rahman. 2012. Analysis of laminar forced convection of air for crossflow over two staggered flat tubes. International Journal of Automotive and Mechanical Engineering, 6: 755-767. **(Scopus Indexed)**
50. Khalaf I. Hamada, **M.M. Rahman**, and A. Rashid A. Aziz. 2012. Time-averaged heat transfer correlation for direct injection hydrogen fueled engine. International Journal of Hydrogen Energy, 37(24): 19146-19157, **(SCI Indexed, Q1, IF = 4.053)**
51. Thamir K. Ibrahim **and M. M. Rahman** 2012. Parametric Simulation of Triple-Pressure Reheat Combined Cycle: A Case Study. Advanced Science Letters, 13: 263-268, **(SCI Indexed, IF=1.258, Q2)**.
52. **M. M. Rahman**, Khalaf I. Hamada and A. Rashid A. Aziz. 2012. Multidimensional Computational Modeling of Direct Injection for Hydrogen Fueled Engine. Advanced Science Letters, 13: 317-321 **(SCI Indexed, IF=1.258)**.
53. N.H. Razak, **M. M. Rahman** and K. Kadirgama, 2012. Investigation of Machined Surface in End-Milling Operation of Hastelloy C-2000 Using Coated-Carbide Insert. Advanced Science Letters, 13: 300-305 **(SCI Indexed, IF=1.258)**.
54. Md. Ashikur Rahman Khan, **M. M. Rahman** and K. Kadirgama. 2012. Mathematical Model and Optimization of Surface Roughness during Electrical Discharge Machining of Ti-5Al-2.5Sn with Graphite Electrode. Advanced Science Letters, 15(1): 367-372 **(SCI Indexed, IF=1.258)**
55. **M. M. Rahman**, Khalaf I. Hamada, Rosli A. Bakar and M. A. Maleque. 2012. Heat Transfer Analysis inside Exhaust Port for a Hydrogen Fueled Port Injection Engine. Advanced Science Letters, 14(1): 239-243 (SCI Indexed, IF=1.258)
56. Thamir K. Ibrahim and M.M. Rahman. 2012. Thermal impact of operating conditions on the performance of a combined cycle gas turbine. Journal of Applied Research and Technology, 10(4): 567-577 (SCI Indexed, IF =0.22, Q4)
57. Thamir K. Ibrahim and **M. M. Rahman**. 2012. Study on Effective Parameter of the Triple-Pressure Reheat Combined Cycle Performance, Thermal Science: International Scientific Journal, (SCI Indexed, IF= 1.09, Q3) (Online first)
58. K. Kadirgama, M.M. Noor, **M.M. Rahman**. 2012. Optimization of Surface Roughness in End Milling using Potential Support Vector Machine. Arabian Journal for Science and Engineering 37(8): 2269-2275 (SCI Indexed, Q4, IF=0.243).
59. Thamir K. Ibrahim and **M. M. Rahman**. 2011. Parametric Study of a Two-shaft Gas Turbine Cycle Model of Power Plant. IOP Conference Series: Materials Science and Engineering, 36(012024): 1-13. (Scopus Indexed)
60. K. Kadirgama, **M.M. Rahman**, A. R. Ismail, R.A. Bakar. 2012. A surrogate modelling to predict surface roughness and surface texture when grinding AISI 1042 carbon steel.

- Scientific Research and Essays, 7(5): 598-608 (**SCI Indexed, Q3, IF=0.448**)
61. **M.M. Rahman**, Khalaf I. Hamada, K. Kadirgama and Rosli A. Bakar. Cycle analysis of in-cylinder heat transfer characteristics for hydrogen fueled engine. Scientific Research and Essays, 7(8): 891-902 (**SCI Indexed, Q3, IF=0.448**).
 62. **M.M. Rahman**. 2012. Modeling of machining parameters of Ti-6Al-4V for electric discharge machining: A neural network approach. Scientific Research and Essays, 7(8): 881-890 (**SCI Indexed, Q3, IF=0.448**).
 63. N. H. Razak, **M. M. Rahman** and K. Kadirgama. 2012. Response surface design model to predict the surface roughness when machining HASTELLOY C-2000 using uncoated carbide insert. IOP Conference Series: Materials Science and Engineering, 36(012022): 1-9 (**Scopus Indexed**)
 64. Khalaf I. Hamada, M.M. Rahman and A. Rashid A. Aziz. 2012. Development of a computational fluid dynamics model for direct injection hydrogen fueled engine. International Review of Mechanical Engineering (I.R.E.M.E.), 6(3): 675-679 (**SCOPUS Indexed**)
 65. M. Kamal and **M.M. Rahman**. 2012. Study on the dynamic behavior of wishbone suspension system. IOP Conference Series: Materials Science and Engineering, 36(012019): 1-8. (**Scopus Indexed**)
 66. M.F. Abdul Rahim, M.M. Rahman and R.A. Bakar. 2012. Cycle Engine Modelling of Spark Ignition Engine Processes during Wide-Open Throttle (WOT) Engine Operation Running by Gasoline Fuel. IOP Conference Series: Materials Science and Engineering, 36(012041): 1-9. (**Scopus Indexed**)
 67. Md. Ashikur rahman Khan, M.M. Rahman, K.Kadirgama and A.R. Ismail. 2012. RSM Model to Evaluate Material Removal Rate in EDM of Ti-5Al-2.5Sn using Graphite Electrode. IOP Conference Series: Materials Science and Engineering, 36(012016): 1-9. (**Scopus Indexed**)
 68. M. M. Fakir, S. Basri, **M. M. Rahman** and Rosli A. Bakar. 2012. Efficient Finite Element and Differential Quadrature Methods for Heat Distribution in One-Dimensional Insulated-Tip Rectangular Fin. IOP Conference Series: Materials Science and Engineering, 36(012039): 1-10. (**Scopus Indexed**)
 69. M.I. Rafiqul, M. Ishak and **M.M. Rahman**. 2012. Effects of Heat Input on Mechanical Properties of Metal inert gas welded 1.6 mm thick galvanized steel sheet. IOP Conference Series: Materials Science and Engineering, 36(012011): 1-8. (**Scopus Indexed**)
 70. Thamir K. Ibrahim, **M.M. Rahman**. 2012. Effect of compression ratio on performance of combined cycle gas turbine. International Journal of Energy Engineering, 2(1): 9-14.
 71. Hemin, M.M., **Rahman, M.M.** and Omar, R.M. 2012. Novel design of lower arm vehicle using finite element analysis and statistical method. Journal of Advanced Science and Engineering Research, 2: 27-39.
 72. **M.M. Rahman**, M.S. Najiha and A.R. Yusoff. 2012. Minimum Quantity Lubricant Flow with Single and Three Nozzles for Four Teeth Milling Cutter Operations: A CFD Analysis. Advanced Science Letters (accepted), (**SCI Indexed, IF=1.258**).
 73. **M.M. Rahman**, M. Kamal and A.G.A. Rahman. 2012. Finite element based fatigue behavior of spring in automobile suspension. Advanced Science Letters (accepted), (**SCI Indexed, IF=1.258**).
 74. Md. Ashikur Rahman Khan, **M.M. Rahman**, K. Kadirgama and A.R. Ismail. 2012. Mathematical model for wear rate of negative graphite electrode in electrical discharge machining on Ti5Al2.5Sn. Journal of Technology, UTM, 59(S2): 55-59 (**Scopus Indexed**).
 75. M.S.Najiha, **M.M. Rahman**, A.R. Yusoff, K. Kadirgama and H.A. Salaam. 2012. The minimum quantity lubricant flow analysis in milling operation: a CFD approach. International Journal of Automotive and Mechanical Engineering, 6: 673-761.

YEAR 2011

76. **M.M. Rahman**, Khalaf I. Hamada, M.M. Noor, K. Kadirgama, Rosli A. Bakar and M.F.A. Rahim. 2011. Heat Transfer Characteristics in Exhaust Port for Hydrogen Fueled Port Injection Engine: A Transient Approach. Advanced Materials Research, 152-153: 1909-1914. (Scopus Indexed).
77. **M.M. Rahman**. 2011. Optimization of Process Parameters on Ti-6Al-4V using Central Composite Design Method. Advanced Materials Research, 189-193: 1393-1400

- (Scopus Indexed).**
78. **M.M. Rahman**, Thamir K. Ibrahim, K. Kadirgama, R. Mamat and Rosli A. Bakar. 2011. Influence of Operation Conditions and Ambient Temperature on Performance of Gas Turbine Power Plant. *Advanced Materials Research*, 189-193: 3007-3013 **(Scopus Indexed).**
 79. **M.M. Rahman**, M.M. Noor, K. Kadirgama, M.A. Maleque. 2011. Modeling, Analysis and Fatigue Life Prediction of Lower Suspension Arm. *Advanced Materials Research*, 264-265: 1557-1562 **(Scopus Indexed).**
 80. Thamir K. Ibrahim, **M.M. Rahman**, Ahmed N Abdalla, 2011. Optimum Gas Turbine Configuration for Improving the performance of Combined Cycle Power Plant. *Procedia Engineering*, 15: 4216-4223, **(Scopus indexed, Elsevier)**
 81. **M.M. Rahman**, Thamir K. Ibrahim and Ahmad N. Abdalla. 2011. Thermodynamic performance analysis of gas turbine power plant. *International Journal of the Physical Sciences*, 6(14): 3539-3550 **(SCI Indexed, Q2, IF=0.54)**
 82. **M.M. Rahman**, M. Kamil and Rosli A. Bakar. 2011. Engine performance and optimum injection timing for 4-cylinder direct injection hydrogen fueled engine. *Simulation Modelling Practice and Theory*, 19: 1734-1751 **(SCI Indexed, IF=0.79).**
 83. Thamir K. Ibrahim, M.M. Rahman and Ahmed N. Abdalla. 2011. Improvement of gas turbine performance based on inlet air cooling systems: A Technical Review. *International Journal of Physical Sciences*. 6(4): 620-627. **(SCI Indexed, Q2, IF = 0.54)**
 84. AA Adebisi, M Maleque, M Rahman. 2011. Metal matrix composite brake rotor: Historical development and product life cycle analysis. *International Journal of Automotive and Mechanical Engineering*, 4: 471-480. **(Scopus Indexed)**
 85. **M.M. Rahman**, Khalaf I. Hamda and K. Kadirgama. 2011. Heat transfer of intake port for hydrogen fueled port injection engine: A steady state approach. *International Journal of the Physical Sciences*, 6(16): 4036-4043 **(SCI Indexed, Q2, IF=0.54)**
 86. **M.M. Rahman**, M.A.R. Khan, K. Kadirgama, M.M. Noor and R.A. Bakar. 2011. Experimental investigation into electrical discharge machining of stainless steel 304. *Journal of Applied Sciences*, 11(3): 549-554 **(ISI/ Scopus, indexed).**
 87. **M.M. Rahman**, Hemin M. Mohyaldeen, M.M. Noor, K. Kadirgama and Rosli A. Bakar. 2011. Linear Static Response of Suspension Arm based on Artificial Neural Network Technique. *Advanced Materials Research*, 213: 419-426. **(Scopus Indexed).**
 88. M.A. Maleque, **M.M. Rahman** and S. Hossain. 2011. Reverse Engineering of Motorcycle Chain. *Advances in Materials and Processing Technologies II, Advanced Materials Research*. 264-265: 1678-1683 **(Scopus indexed).**
 89. M.S.M. Sani, **M.M. Rahman**, M.M.Noar, K. Kadirgama and M.H.N. Izham. 2011. Identification of Dynamics Modal Parameter for Car Chassis. *Materials Science and Engineering*. 17(1): art No. 012038. **(Scopus Indexed).**
 90. M.M. Noor, K. Kadirgama and M.M. Rahman. 2011. Particle swarm optimization prediction model for surface roughness. *International Journal of the Physical Sciences*, 6(13): 3082-3090 **(SCI Indexed, Q2, IF=0.54)**
 91. M.M. Noor, K. Kadirgama, **M.M. Rahman** and M.A. Maleque. 2011. Pattern Recognition Method to Predict Recycling Strategy for Electronic Equipments. *Advanced Materials Research*, 264-265: 949-955 **(Scopus Indexed).**
 92. M.M. Noor, K. Kadirgama, **M.M. Rahman** and M.A. Maleque. 2011. Prediction of Recycle Method using Relevance Vector Machine. *Advanced Materials Research*, 264-265: 943-948 **(Scopus Indexed).**
 93. M.A.R. Khan, **M.M. Rahman**, K. Kadirgama, M.A. Maleque and Rosli A. Bakar. 2011. Artificial Intelligence Model to Predict Surface Roughness of Ti-15-3 Alloy in EDM Process. *WASET*, 50: 194-198. **(Scopus Indexed)**
 94. M.M. Rahman, Md. Ashikur Rahman Khan, M.M. Noor, K. Kadirgama, Rosli A. Bakar. 2011. Optimization of machining parameters on surface roughness in EDM of Ti6Al-4V using response surface method. *Advanced Materials Research*, 213: 402-408 **(Scopus Indexed)**
 95. M.A. Maleque, **M.M. Rahman** and S. Hossain. 2011. Conceptual Design of Aluminium Metal Matrix Composite Brake Rotor System. *Advances in Materials and Processing Technologies II, Advanced Materials Research*. 264-265: 1648-1653 **(Scopus indexed).**
 96. **M.M. Rahman**, Md. Ashikur Rahman Khan, K. Kadirgama, M.M. Noor and Rosli A. Bakar. 2011. Optimization of Machining Parameters on Tool Wear Rate of Ti-6Al-4V through EDM using Copper Tungsten Electrode: A Statistical Approach. *Advanced Materials Research*, 152-153: 1595-1602 **(Scopus Indexed).**

97. M.A.R. Khan, **M.M. Rahman**, M.M. Noor, K. Kadirgama and M.A. Maleque. 2011. Current Research Trends on Dry, Near-Dry and Powder Mixed Electrical Discharge Machining. *Advanced Materials Research*, 264-265: 956-961 (**Scopus Indexed**).
98. A.A. Adebisi, M.A. Maleque and M.M. Rahman. 2011. Metal matrix composite brake rotors: Historical development and product life cycle analysis. *International Journal of Automotive and Mechanical Engineering*. 4: 471-480.
99. Hemin M. M, Rahman M. M and Omar R.M. 2011. Investigate of Linear Response of Vehicle Arm Based on Artificial Intelligence Technique. *Journal of Advanced Science and Engineering Research*. 1:42-52.
100. Hemin M. M, **Rahman M. M** and Omar R.M. 2011. Dynamic analysis of vehicle arm based on finite element approach. *Journal of Advanced Science and Engineering Research*. 1: 124-136.
101. Mohammed Kamil, **M.M. Rahman** and Rosli A. Bakar. 2011. Performance evaluation of external mixture formulation strategy in hydrogen fueled engine. *Journal of Mechanical Engineering and Sciences*, 1: 87-98.
102. Md. Ashikur Rahman Khan, **M.M. Rahman**, K. Kadirgama, M.A. Maleque and M. Ishak. 2011. Prediction of surface roughness of Ti-6Al-4V in electrical discharge machining: A regression model. *Journal of Mechanical Engineering and Sciences*, 1: 16-24.
103. K. Kadirgaman, **M.M.Rahman**, A.R. Ismail, and R.A.Bakar. 2011. Finite element analysis of Hastelloy C-22HS in end milling. *Journal of Mechanical Engineering and Sciences*, 1: 37-46.
104. G. Srinivasa Rao, K.V. Sharma, S.P. Chary, R.A. Bakar, **M.M. Rahman**, K. Kadirgama and M.M. Noor. 2011. Experimental study on heat transfer coefficient and friction factor of Al₂O₃ nanofluid in a packed bed column. *Journal of Mechanical Engineering and Sciences*, 1: 1-15.
105. A. Zulkifli, A.K. Ariffin and **M.M. Rahman**. 2011. Probabilistic Finite Element Analysis of Vertebrae of the Lumbar Spine under Hyperextension Loading. *International Journal of Automotive and Mechanical Engineering*, 3: 256-264. (**Index Copernicus**)
106. M.Z. Nuawi, A.R. Ismail, M.J.M. Nor and M.M. Rahman. 2011. A Comparative Study of Whole-Body Vibration Exposure in Train and Car Passengers: A Case Study in Malaysia. (*International Journal of Automotive and Mechanical Engineering*, 4: 490-503. (**Index Copernicus**))

YEAR 2010

107. **M.M. Rahman**, Md. Ashikur Rahman Khan, K. Kadirgama, M.M. Noor and Rosli A. Bakar. 2010. Modeling of material removal on machining of Ti-6Al-4V through EDM using copper tungsten electrode and positive polarity. *World Academy of Science, Engineering and Technology* 71: 576-581 (**Scopus indexed**).
108. **M.M. Rahman**, Khalaf I. Hamada, M.M. Noor, K. Kadirgama, M.A. Maleque and Rosli A. Bakar. 2010. Heat Transfer characteristics of intake port for spark ignition engine: A comparative study. *Journal of Applied Sciences*, 10(18): 2019-2016. (**ISI Thomson and Scopus Indexed**)
109. **M.M. Rahman**, Khalaf I. Hamada, M.M. Noor, Rosli A. Bakar, K. Kadirgama and M.A. Maleque. 2010. In-Cylinder Heat Transfer Characteristics of Hydrogen Fueled Engine: A Steady State Approach. *American Journal of Environmental Sciences*, 6(2): 124-129. (**Scopus Indexed**)
110. **M.M. Rahman**, Khalaf I. Hamada, M.M. Noor, Rosli A. Bakar, K. Kadirgama and M.A. Maleque. 2010. Transient In-Cylinder Gas Flow Characteristics of Single Cylinder Port Injection Hydrogen Fueled Engine. *American Journal of Applied Sciences*, 7(10): 1364-1371, 2010. (**ISI Thomson indexing/ Scopus Indexing**)
111. H.H. Habeeb, K. Kadirgama, M.M. Noor, **M.M. Rahman**, B. Mohammad, R.A. Bakar and K.A. Abouel Hossein. 2010. Machining of Nickel Alloy 242 with Cubic Boron Nitride Tools. *Journal of Applied Sciences*, 10(19): 2322-2327 (**Scopus/ISI indexed**).
112. Thamir K. Ibrahim, M.M. Rahman and Ahmed N. Abd Alla. 2010. Study on the effective parameter of gas turbine model with intercooled compression process. *Scientific Research and Essays*, 5(23): 3760-3770. (**SCI Indexed, Q3, IF = 0.448**)
113. M.M. Noor, K. Kadirgama, H.H. Habeeb, **M.M. Rahman** and B. Mohammad. 2010. Performance of carbide cutting tools when machining of nickel based alloy. *International Journal of Material Forming*, 3(S1): 475-478 (**Scopus/ISI indexed**).
114. K. Kadirgama, M.M. Noor, **M.M. Rahman**, M.S.M. Sani and K.A.Abou-El-Hossein. 2010.

- Optimised tool life by partial swarm optimization. International Journal of Material Forming, 3(S1): 479-482 (**Scopus/ISI indexed**).
115. K. Kadirgama, M.M. Noor, K.A. Abou-El-Hossein, H.H. Habeeb, **M.M. Rahman**, B. Mohamad and R.A. Bakar. 2010. Effect of dry cutting on force and tool life when machining aerospace material. World Academy of Science, Engineering and Technology 71, pp. 452-456 (Scopus indexed).
 116. M.M. Noor, K. Kadirgama, **M.M. Rahman**, N.M. Zuki N.M, K.F. Muhamad, M.R.M. Rejab and Julie J. Mohamed. 2010. Prediction Modelling of Surface Roughness for Laser Beam Cutting on Acrylic Sheets. Advanced Materials Research 83-86: 793-800 (**Scopus, ISI indexed**).
 117. **M.M. Rahman**, Mohammed K. Mohammed, Rosli A. Bakar, M.M. Noor and K. Kadirgama. 2010. Trends of air fuel ratio on engine performance of four cylinder direct injection hydrogen fueled engine. European Journal of Technology and Advanced Engineering Research. 1: 20-29.
 118. Mohammed Kamil, **M.M. Rahman** and Rosli A. Bakar. 2010. Modeling of common rail fuel injection system of four cylinder hydrogen fueled engine. Journal of Engineering and Technology. 1(1): 42-52.
 119. M.M. Noor, K. Kadirgama, **M.M. Rahman**, R.A. Bakar and A. Ibrahim. 2010. Analysis of Entry Qualification for student performance: An Intelligence Approach. Journal of Engineering and Technology. 1(1): 53-62.
 120. K.V.Sharma, K.V.Suryanarayana, P.K.Sarma, **M.M.Rahman**, M.M.Noar, K.Kadirgama. 2010. Experimental Investigations of Oxygen Stripping From Feed Water in a Spray cum Tray Type Deaerator. International Journal of Automotive and Mechanical Engineering, 1: 46-65.
 121. **M. M. Rahman**, Thamir K. Ibrahim, M. Y. Taib, M. M. Noor and Rosli A. Bakar. 2010. Thermal Analysis of open-cycle regenerator gas-turbine power-plant. WASET, 44: 811-816.
 122. **M.M. Rahman** and M.P. Abdullah. 2010. Alternative Materials Choice: Challenges to use Titanium Alloys in Automotive Industries. AUTO INEXSS, 2: 14-16 (**Non-indexed**).
 123. M.M. Noor, K. Kadirgama, **M.M. Rahman**, M.R.M. Rejab, M.S.M. Sani, T.T. Mon, Rosli A. Bakar. 2010. Development of statistical model to predict Ra and Rz in laser cutting. WIT Transactions on the Built Environment, High Performance Structures and Materials V, 112: 401-408 (**Scopus indexed**).
 124. K. Kadirgama, M.M. Noor, **M.M. Rahman**, M.S.M. Sani, M.R.M. Rejab, Rosli A. Bakar, K.A. Abou-El-Hossein. 2010. Prediction Modelling of Power and Torque in End-Milling. WIT Transactions on the Built Environment, High Performance Structures and Materials V, 112: 409-418 (**Scopus indexed**).
 125. M.R.M. Rejab, M.S.M. Sani, M.M. Noor, K. Kadirgama, **M.M. Rahman** and A. Alias. 2010. Mechanical Behaviour of Polymeric Foam Core at Various Orientation Angles. WIT Transactions on the Built Environment, High Performance Structures and Materials V, 112: 429-438. (**Scopus indexed**).
 126. M.S.M.Sani, M.M.Noar, M.S.M.Zainury, M.R.M.Rejab, K.Kadirgama, **M.M.Rahman**. 2010. Investigation on Modal Transient Response Analysis of Engine Crankshaft Structure. WIT Transactions on the Built Environment, High Performance Structures and Materials V, 112: 419-428. (**Scopus indexed**).

YEAR 2009

127. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2009. Finite Element based Vibration Fatigue Analysis for A New Free Piston Engine Component. Arabian Journal for Science and Engineering, 34(1B): 229-244 (**SCI Indexed, Q4, IF=0.22**)
128. **M.M. Rahman**, M.K. Mohammed and R.A. Bakar. 2009. Trends of Rotational Speed on Engine Performance for Four Cylinder Direct Injection Hydrogen Fueled Engine. Trends in Applied Sciences Research, 4(4):188-199 (**ISI Thomson Indexed**)
129. **M.M. Rahman**, M.K. Mohammed and R.A. Bakar. 2009. Air fuel ratio on engine performance and instantaneous behaviour of crank angle for four cylinder direct injection hydrogen fueled engine. Journal of Applied Sciences, 9(16): 2877-2886 (**Scopus/ISI Indexed**)
130. **M.M. Rahman**, Mohammed K. Mohammed and Rosli A. Bakar. 2009. Effects of Air Fuel Ratio and Engine Speed on Performance of Hydrogen Fueled Port Injection Engine. Journal of Applied Sciences, 9(6): 1128-1134 (**Scopus/ISI Thomson Indexed**).
131. **M.M. Rahman**, Rosli A. Bakar, M.R.M. Rejab, S. Abdullah and M. M. Noor. 2009.

- Assessment of surface treatment on fatigue life of cylinder block for linear engine using frequency response approach. American Journal of Applied Sciences, 6(4): 715-725 (**Scopus Indexing**)
132. **M.M. Rahman**, Muhamed K. Muhamed and Rosli A. Bakar. 2009. Effects of Air Fuel Ratio and Injection Timing on Performance for 4-Cylinder Direct Injection Hydrogen Fueled Engine. European Journal of Scientific Research, 25(2): 214-225 (**Scopus Indexing**)
 133. **M.M. Rahman**, A. K. Ariffin, S. Abdullah, M. M. Noor and Rosli A.B. 2009. Durability assessment of cylinder block for two stroke free piston linear engine using random loading. American Journal of Applied Sciences, 6(4): 726-735 (**Scopus Indexing**)
 134. **M. M. Rahman**, Rosli A. Bakar, M.M. Noor, M.S.M. Sani and Julie J. Mohamed. 2009. Effects of spot diameter and sheets thickness on fatigue life of spot welded structure based on FEA approach, American Journal of Applied Sciences, 6(1): 137-142 (**ISI/Scopus Indexed**)
 135. **M.M.Rahman**, A.K.Ariffin, M.R.M.Rejab, K.Kadrigama, M.M.Noor. 2009. Multiaxial Fatigue Behaviour of Cylinder Head for a Free Piston Linear Engine. Journal of Applied Sciences, 9(15): 2725-2734 (**Scopus and ISI Thomson Indexed**).
 136. K. Kadrigama, M.M. Noor and **M.M. Rahman**. 2009. Effect of Milling Parameters on Frictions when Milling Hastelloy C-22HS: A FEM and Statistical Method. Trends in Applied Sciences Research 4(4): 216-228 (**ISI Thomson indexed**)
 137. K.Kadrigama, M.M.Noor, **M.M.Rahman**, W.S.W. Harun and C.H.C. Haron. 2009. Finite Element Analysis and Statistical Method to Determine Temperature Distribution on Cutting Tool in End-Milling. European Journal of Scientific Research, 30(3): 451-563 (**Scopus Indexed**).
 138. K.Kadrigama, M.M.Noor, **M.M.Rahman**, M.R.M.Rejab, C.H.C. Haron and K.A.Abou-El-Hossein. 2009. Surface Roughness Prediction Model Of Aluminium Alloys 6061-T6 Machining Using Statistical Method. European Journal of Scientific Research, 25(2): 250-256 (**Scopus Indexed**)
 139. N. A. Al-Asady , S. Abdullah, A. K. Ariffin, S. M. Beden and **M. M. Rahman**. 2009. FEA based durability using strain-life models for different medium carbon steel as fabrication materials for an automotive component. International Journal on Mechanical and Materials Engineering (IJMME), 4(2): 39-44. (**Scopus Indexed**)
 140. **M. M. Rahman**, K. Kadrigama, M.M. Noor, M.R.M. Rejab and S.A. Kesulai. 2009. Fatigue Life Prediction of Lower Suspension Arm using Strain-Life Approach. European Journal of Scientific Research, 30(3): 437-450 (**Scopus Indexed**).
 141. K.Kadrigama, M.M.Noor, **M.M. Rahman**, Rosli A. Bakar and K. A. Abou-El-Hossein. 2009. Fourth Order Torque Prediction Model in End Milling. Journal of Applied Sciences, 9(13): 2431-2437, 2009. (**Scopus and ISI Thomson Indexed**)
 142. S.M. Bedan, S. Abdullah, A.K. Ariffin, N.A. Al-asady and **M.M. Rahman**. 2009. Fatigue life assessment of different steel-based shell materials under variable amplitude loading. European Journal of Scientific Research, 29(2): 157-169 (**Scopus Indexed**)
 143. Rosli A. Bakar, Muhamed K. Muhamed and **M. M. Rahman**. 2009. Numerical Study on the Performance Characteristics of Hydrogen Fueled Port Injection Internal Combustion Engine. American Journal of Engineering and Applied Sciences, 2(2): 407-414 (**DOAJ Indexed**)
 144. M.M.Noor, K.Kadrigama, Aidy Ali, **M.M.Rahman**, Z.Ghazalli. 2009. Prediction of End-of-Life Strategies for Household Equipments using Artificial Intelligent. American Journal of Applied Sciences, 6(10): 1838-1844, 2009. (**Scopus Indexed**)
 145. **M.M. Rahman**, M.M. Noor, K.Kadrigama, M.R.M.Rejab. 2009. Study of air Fuel Ratio on Engine Performance of Direct Injection Hydrogen Fueled Engine. European Journal of Scientific Research, 34(4): 506-513 (**Scopus Indexed**)
 146. N.A. Al-asady, S. Abdullah, A.K. Ariffin, S.M. Bedan and **M.M. Rahman**. 2009. Comparison between experimental road data and finite element analysis data for automotive lower suspension arm. European Journal of Scientific Research, 29(4): 557-571 (**Scopus Indexed**)
 147. **M. M. Rahman**, Muhammed K. Muhammed and Rosli Abu Bakar. 2009. Effects of Engine Speed and Injection Timing and Engine Performance for 4-Cylinder DI Hydrogen Fueled Engine. Canadian Journal of Pure and Applied Sciences, 3(1): 731-739.
 148. M.M.Noor, K.Kadrigama, **M.M.Rahman**, M.R.M.Rejab, Rosli A. Bakar, Abdullah Ibrahim. 2009. Education Reform Model at Faculty of Mechanical Engineering, Universiti Malaysia Pahang. International Journal of Recent Trends in Engineering,

YEAR 2008

149. **M.M. Rahman**, A. K. Ariffin, S. Abdullah, M. M. Noor, R. A. Bakar and M. A. Maleque. 2008. Finite element based fatigue life prediction of cylinder head for two-stroke linear engine using stress-life approach. *Journal of Applied Sciences*, 8(19):3316-3327 **(Scopus Indexed)**
150. **M. M. Rahman**, A.K. Ariffin, N. Jamaludin, S. Abdullah and M.M. Noor. 2008. Finite element based fatigue life prediction of a new free piston engine mounting. *Journal of Applied Sciences*, 8(9):1612-1621 **(ISI/Scopus Indexed)**
151. S. Abdullah, N.A. Al-Asady, A. K. Ariffin and **M.M Rahman**. 2008. A Review on Finite Element Analysis Approaches in Durability Assessment of Automotive Components. *Journal of Applied Sciences*, 8(12): 2192-2201 **(ISI/Scopus Indexed)**
152. **M.M. Rahman**, Rosli A. Bakar, M.M. Noor, M.R.M. Rejab and M.S.M. Sani. 2008. Fatigue Life Prediction of Spot-Welded Structures: A Finite Element Analysis Approach. *European Journal of Scientific Research*, 22(3): 444-456 **(Scopus Indexed)**.
153. S. Abdullah, S. M. Beden, A. K. Ariffin and **M. M. Rahman**. 2008. Fatigue Life Assessment for Metallic Structure: A Case Study of Shell Structure under Variable Amplitude Loading, *Journal of Applied Sciences*, 8(9): 1622-1631. **(ISI/Scopus Indexed)**
154. **M.M. Rahman** and Rosli A. Bakar. 2008. Assessment of fatigue life behavior of cylinder block for free piston engine using frequency response approach. *Research Journal of Applied Sciences*, 3(1): 32-43, **(Scopus Indexed)**.
155. **M.M. Rahman**, A.K. Ariffin, N. Jamaludin, C.H.C. Haron and Rosli A. Bakar. 2008. Fatigue Life Prediction of Two-Stroke Free Piston Engine Mounting using Frequency Response Approach. *European Journal of Scientific Research*, 22(4): 480-493 **(Scopus Indexed)**.
156. K.Kadrigama, M.M.Noar, N.M.Zuki.N.M, **M.M.Rahman**, M.R.M.Rejab, R.Daud, K.A.Abou-El-Hossein. 2008. Optimization of Cutting Force and Surface Roughness in End Milling on Mould Aluminium Alloys (AA6061-T6) using Response Surface Method and Radian Basis Function Network. *Jordan Journal of Mechanical and Industrial Engineering*. 2(4), 209-214.
157. S.M. Bedan, S. Abdullah, A.K. Ariffin, N.A. Al-asady, **M.M. Rahman**. 2008. Fatigue life assessment of different steel-based shell materials under variable amplitude loading. *European Journal of Scietific Research*, 29(1): 157-169 **(Scopus Indexed)**.

YEAR 2007

158. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and S. Abdullah. 2007. Effect of Nitriding Treatment on Fatigue life for Free Piston Linear Engine Component using Frequency Response Method: a Finite Element Approach. *Structural Durability and Health Monitoring*, 3(4): 197-209 **(Scopus Indexed)**
159. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2007. Finite element based durability assessment of a free piston linear engine component. *Journal of Structural Durability and Health Monitoring*, 3(1): 1-13 **(Scopus Indexed)**
160. **M. M. Rahman**, A. K. Ariffin and S. Abdullah. 2007. Finite Element Based Vibration Fatigue Analysis of a New Two-stroke Linear Generator Engine Component. *International Journal of Mechanical and Materials Engineering*, 2(1): 63-74 **(Scopus Indexed)**
161. **M. M. Rahman**, A K. Ariffin and N. A. N. Mohamed. 2007. Investigate the Influences of shot peening on the Fatigue Life of Vibrating Cylinder Block for a New Free Piston Linear Engine. *International Journal of Mechanical and Materials Engineering*, 2(1): 19-28 **(Scopus Indexed)**

YEAR 2006

162. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2006. Influence of surface treatments on fatigue life of a free piston linear generator engine component using Random Loading. *Journal of Zhejiang University of Science Part A*, 7(11): 1819-1830 **(SCI Inddexed, Q3, IF= 0.408)**

163. **M. M. Rahman** and A. K. Ariffin. 2006. Effects of Surface Finish and Treatment on the Fatigue Behavior of Vibrating Cylinder Block using Frequency Response Approach. *Journal of Zhejiang University of Science*, 7(3): 352-360 (**SCI Indexed, Q3, IF =0.408**)
164. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2006. Influence of surface treatments on fatigue life of a free piston linear generator engine component using Narrow band approach. *Structural Durability and Health Monitoring*, 2(2): 69-82, (**Scopus Indexed**)
165. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C. H.C. Haron. 2006. Static and Dynamic Characteristics of Journal Bearing in the Linear Generator Engine. *HKIE Transactions*, 13(2): 9-15, Hong Kong (**Scopus Indexed**)
166. **M. M. Rahman** and A. K. Ariffin. 2006. Finite Element Analysis of Dynamic Characteristics of Journal Bearing in the New Two-Stroke Free Piston Engine. *Malaysian Journal of Science*, 25(1): 115-127, (**Scopus Indexed**)
167. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2006. Durability Assessment of a New Free Piston Spark Ignition Engine: A Computational Approach. *Journal of Technology Part- A*, 45(A): 81-102, (**Scopus Indexed**)
168. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2006. Fatigue Behavior of 6000 Series Aluminum Alloys on Cylinder Block of a Free Piston Engine using Total Life Approach. *Journal of Mechanical Engineering UTM*, 21: 1-15.

YEAR 2005

169. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2005. Vibration Fatigue Analysis of Cylinder Head of a New Two-stroke Free Piston Engine Using Finite Element Approach. *Structural Integrity and Durability (SID)*, 1(2): 121-129, (**Scopus Indexed**)
170. **M. M. Rahman** and A. K. Ariffin. 2005. The Role of Nitriding on the Fatigue Life of a New Free Piston Engine Component: Finite Element based Investigation. *Mechanical Engineering Research Journal*, 5: 11-15.
171. **M. M. Rahman** and A. K. Ariffin. 2005. Finite element based Fatigue Life Prediction of Vibrating Cylinder block of a New Two-stroke Free Piston Engine. *Mechanical Engineering Research Journal*, 5: 1-6.
172. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron. 2005. Finite Element Analysis of Journal Bearing in the Linear Generator Engine. *Trans. Of Mech. Dev., Journal of Mechanical Engineering, The Institute of Engineers, Bangladesh*, ME34: 11-24.

YEAR 2004

173. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C. H. C. Haron. 2004. Finite Element Based Contact Analysis of Linear Generator Engine. *Mechanical Engineering Research Journal*, 4: 6-11.

INTERNATIONAL/NATIONAL CONFERENCE PAPERS

YEAR 2012

174. **M.M. Rahman**, K. Kadirgama and H.S.M. Sabaruddin. 2012. Modeling of grinding parameters on ductile cast iron using water based Zinc oxide nanoparticle coolant. *Advanced Materials Conference 2012 (AMC2012)*, 12-13 December, Langkawi, Malaysia, pp. 1-8.
175. **M.M. Rahman**, Md. Ashikur Rhaman Khan, K. Kadirgama. 2012. Mathematical modeling of material removal rate on Ti-5Al-2.5Sn with positive copper-tungsten electrode through EDM. *Twentieth Annual International Conference on Composites/Nano Engineering (ICCE - 20)* ICCE-20 Beijing, China, July 22-28.
176. Md. Ashikur Rhaman Khan, M.M. Rahman, K. Kadirgama. 2012. Surface roughness prediction and characteristics of Ti-5Al-2.5Sn in Electrical Discharge Machining using Neural Network. *Twentieth Annual International Conference on Composites/Nano Engineering (ICCE - 20)* ICCE-20 Beijing, China, July 22-28.
177. **M.M. Rahman**, N.H. Razak, K. Kadirgama. 2012. Characteristics of surface integrity when machining of Hastelloy C-2000 in end mill process. *Twentieth Annual International Conference on Composites/Nano Engineering (ICCE - 20)* ICCE-20

- Beijing, China, July 22-28.
178. KM.S. Najih, **M.M. Rahman** and A.R. Yusoff. 2012. Flow behaviour in the Minimum Quantity Lubrication Nozzle. National Conference on Postgraduate Research 2012 (NCON-PGR 2012), 8-9 September 2012, Kuantan, Malaysia, pp. 1-6.
 179. Tahseen A. Tahseen, M. Ishak and **M.M. Rahman**. 2012. A numerical study of forced convection heat transfer over a series of flat tubes between parallel plates. National Conference on Postgraduate Research 2012 (NCON-PGR 2012), 8-9 September 2012, Kuantan, Malaysia, pp. 1-6.
 180. M.Kamal, **M.M. Rahman** and A.G.A. Rahman. 2012. Fatigue life evaluation of suspension knuckle using multi body simulation technique. National Conference on Postgraduate Research 2012 (NCON-PGR 2012), 8-9 September 2012, Kuantan, Malaysia, pp. 1-6.
 181. Khalaf I. Hamada, M.M. Rahman and A. Rashid A. Aziz. 2012. Injection Timing Optimization in Term of In-cylinder Heat Transfer Analysis for Direct Injection Hydrogen Fueled Engine. International Conference on Applications and Design in Mechanical Engineering (ICADME2012), 12-13 February 2012, pp. 1-5.
 182. Tahseen A. Tahseen, M. Ishak and M. M. Rahman. 2012. A Numerical Study Laminar Forced Convection of Air for In-line Bundle of Cylinders Cross-flow, 3rd International Conference on Production, Energy and Reliability (ICPER2012), 12 – 14 June 2012, Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia, pp. 1-10.

YEAR 2011

183. **M.M. Rahman** and M.S. Shaari. 2011. Topology optimization to design of connecting rod. ASME 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), 26-27 August, Dalian, China, 3:1-8.
184. Thamir K. Ibrahim, **M.M. Rahman** and K.V. Sharma. 2011. Influence of operation conditions on performance of combined cycle gas turbine. ASME 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), 26-27 August, Dalian, China, 3: 9-15.
185. Khalaf I. Hamada, M.M. Rahman and Rosli A. Bakar. 2011. Trends of Dimensionless In-Cylinder Heat Transfer Parameters of Port Injection Hydrogen Fueled Engine. ASME 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), 26-27 August, Dalian, China, pp. 2: 681-688.
186. **M.M. Rahman**, Thamir K. Ibrahim, K. Kadirgama and Rosli A. Bakar. 2011. Performance of Combined Cycle Gas Turbine with Variation of Cycle Peak Temperature Ratio. Malaysian Technical Universities International Conference on Engineering and Technology (MUICET 2011), 13-15 November, Batu Pahat, Johor, Malaysia
187. Md. Ashikur Rahman Khan, **M.M. Rahman**, K. Kadirgama, M. Ishak and Asmizam Bin Mokhtar. 2011. Artificial Intelligence Model To Evaluate Surface Roughness of Ti-5Al-2.5Sn using Graphite Electrode in EDM. Malaysian Technical Universities International Conference on Engineering and Technology (MUICET 2011), 13-15 November, Batu Pahat, Johor, Malaysia
188. Thamir K. Ibrahim, **M.M. Rahman**, K. Kadirgama and Rosli A. Bakar. 2011. Effect of Compression Ratio on Performance of Combined Cycle Gas Turbine. Malaysian Technical Universities International Conference on Engineering and Technology (MUICET 2011), 13-15 November, Batu Pahat, Johor, Malaysia

YEAR 2010

189. **M. M. Rahman**, Khalaf I. Hamada, M. M. Noor and K. Kadirgama. 2010. Effect of Intake Conditions on Heat Transfer Characteristics for Port Injection Hydrogen Fueled Engine, 2010 International Conference on Mechanical and Electrical Technology (ICMET 2010), Singapore. September 10-12, 2010 (IEEE Proceedings, ISI proceedings indexing)
190. **M. M. Rahman**, Hemin M. Mohyaldeen, M. M. Noor and Rosli A. Bakar, "Robust Design of Suspension Arm based on Stochastic Design Improvement "2010 2nd International Conference on Mechanical and Electronics Engineering (ICMEE 2010), Kyoto, Japan. August 1-3, 2010 (IEEE Proceedings, ISI proceedings indexing)
191. M.A. Maleque, S.Dyuti and **M.M. Rahman** "Material Selection Method in Design of Automotive Brake Disc" The 2010 International Conference of Manufacturing

- Engineering and Engineering Management, London, U.K., 30 June – 2 July 2010
192. K.Kadrigama, M.M. Noor, **M.M. Rahman**, M.S.M.Sani, Khaled Abou- El-Hossein, "Optimized Tool life by Partial Swarm" Optimization, The 13th International ESAFORM Conference on Material Forming, 7-9 April, University of Brescia, Brescia, Italy, 2010. 1.
 193. Md. Ashikur Rahman Khan, M.M. Rahman, K. Kadrigama and M.M. Noor. 2010. Multilayer Perceptron on Model to Predict Material Removal Rate of Ti-15-3 in Electrical Discharge Machining. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 1-11.
 194. M.M. Fakir, S. Basri, Rosli A. Bakar and **M.M. Rahman**. 2010. One-Dimensional Heat Transfer in A Convection-Tip Rectangular Thin Fin: A Comparative Study. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 12-22.
 195. N. H. Razak, **M. M. Rahman**, M.M.Noor and K. Kadrigama. 2010. Artificial Intelligence Techniques For Machining Performance: A Review. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 39-53.
 196. Z. Husin, **M.M. Rahman**, K. Kadrigama, M.M. Noor and Rosli A. Bakar. 2010. Prediction of Fatigue Life on Lower Suspension Arm Subjected to Variable Amplitude Loading. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 100-116.
 197. Thamir K. Ibrahim and **M. M. Rahman**. 2010. Effects of Operation Conditions on Performance of A Gas Turbine Power Plant. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 135-144.
 198. M.S. Shaari, **M.M. Rahman**, M.M. Noor, K. Kadrigama and A.K. Amiruddin. 2010. Design of Connecting Rod of Internal Combustion Engine: A Topology Optimization Approach. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 155-166.
 199. Khalaf I. Hamada, **M.M. Rahman**, M.M.Noor, K. Kadrigama and Rosli A. Bakar. 2010. Influence of Engine Speed and Injection Timings on In-Cylinder Heat Transfer for Port Injection Hydrogen Fueled Engine. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 183-194.
 200. L.W. Loon, **M.M. Rahman**, Md. Ashikur Rahman Khan and K. Kadrigama. 2010. Mathematical Modeling of Electrical Discharge Machining Process Parameter on Ti-6Al-4V: A Response Surface Method. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 214-223.
 201. Hemin M. Mohyaldeen, **M. M. Rahman**, M. M. Noor and K. Kadrigama. 2010. New Approach to Design of Suspension Arm using Central Composite Design of Experiment in Conjunction with FEA. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 236-247.
 202. T. N. Izatulshima and **M. M. Rahman**. 2010. A Review on Noise Vibration and Harshness for Car Chassis. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 300-313.
 203. A.L.A. Nee, **M.M. Rahman**, Md. Ashikur Rahman Khan and K. Kadrigama. 2010. Artificial Intelligence Modeling for Optimization of Machining Parameters of Ti-6Al-4V through EDM. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 325-335.
 204. F.W. Loon and **M.M. Rahman**. 2010. Prediction of Fatigue Life and Crack Growth of Keyhole Specimen under Variable Amplitude Loading. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 363-373.
 205. M.A. Maleque Arifuzzaman and **M.M. Rahman**. 2010. Knowledge based Expert System Application for Automotive Piston Material Selection. Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 463-471.
 206. M.F.A. Rahim, Rosli A. Bakar and **M.M. Rahman**. 2010. Convergence Study of A 4 Stroke SI Engine Combustion Modelling using Turbulent Flame Speed Closure Model.

- Proceedings of 2nd National Conference in Mechanical Engineering for Research and Postgraduate Studies (2nd NCMER), pp. 498-506.
207. N.H. Razak, **M.M.Rahman**, M.M.Noor, K.Kadirgama, A Review of Minimum Quantity Lubricant on Machining Performance, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang, 2010.
 208. Mohammed Kamel, **M.M.Rahman**, Rosli A.Bakar, M.F.A.Rahim, M.M.Noor, Effect of Engine Speed on Common Rail Injection System for Hydrogen Engine, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang, 2010.
 209. Mohammed Kamel, **M.M.Rahman**, Rosli A.Bakar, External Mixture Formation Strategy In Hydrogen Fueled Engine: Performance Evaluation. National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN: 978-967-5080-95-1, Universiti Malaysia Pahang, 2010.
 210. M.M.Noor, K.Kadirgama, **M.M.Rahman**. 2010. Analysis of Surface Roughness for Laser Cutting on Acrylic Sheets using Response Surface Method, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN: 978-967-5080-95-1, Universiti Malaysia Pahang.
 211. E.H.Jamaluddin, M.M.Noor, K.Kadirgama, **M.M.Rahman**, K.V.Sharma. 2010. Failure Analysis of Heat Exchanger Tubes in the Indirect Air-Cooled Rotary Shell, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang.
 212. M.M.Noor, K.Kadirgama, **M.M.Rahman**, A.K.Amiruddin. 2010. Analysis of Automotive Drive Shaft using Finite Element Method, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN: 978-967-5080-95-1, Universiti Malaysia Pahang.
 213. M.M.Noor, K.Kadirgama, **M.M.Rahman**. 2010. The Prediction of Recycling Strategy for Electronic Equipments for Sustainable Future. Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, June 28-29, Bayview Hotel, Melaka, Malaysia.
 214. K.Kadirgama, M.M.Noor, **M.M.Rahman**, "Development of Axiomatic-DFA Software for Remanufacturing System", Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, 28-29 June, Bayview Hotel, Melaka, Malaysia, 2010.
 215. Md. Ashikur Rahman Khan, **M.M.Rahman**, M.M.Noor, K.Kadirgama, Optimization Modeling of Material Removal in Electrical Discharge Machining Process on Ti-6Al-4V using Response Surface Approach", Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, 28-29 June, Bayview Hotel, Melaka, Malaysia, 2010.
 216. Md. Ashikur Rahman Khan, **M.M. Rahman**, K. Kadirgama and M.M. Noor, "Single Order Response Surface Model to Characterize Surface Roughness on Titanium Alloy (Ti-6Al-4V) in Electrical Discharge Machining Process" Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, 28-29 June, Bayview Hotel, Melaka, Malaysia, 2010.
 217. K.Kadirgama, M.M.Noor, **M.M.Rahman**, The Analysis of Heat Distribution In End-Milling, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang, 2010.
 218. K.Kadirgama, M.M.Noor, **M.M.Rahman**, A Study on Plastic Strain Distribution using Finite Element Analysis, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang, 2010.
 219. M.M.Noor, K.Kadirgama, **M.M.Rahman**, Analysis of Auto CarJack, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26th May, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang, 2010.
 220. M.M.Noor, K.Kadirgama, **M.M.Rahman**, "The Prediction of Recycling Strategy for Electronic Equipments for Sustainable Future", Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, June 28-29, Bayview Hotel, Melaka, Malaysia, 2010.
 221. K.Kadirgama, M.M.Noor, **M.M.Rahman**, "Development of Axiomatic-DFA Software for Remanufacturing System", Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, 28-29 June, Bayview Hotel, Melaka,

- Malaysia, 2010.
222. Md. Ashikur Rahman Khan, **M.M.Rahman**, M.M.Noor, K.Kadirgama, Optimization Modeling of Material Removal in Electrical Discharge Machining Process on Ti-6Al-4V using Response Surface Approach", Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, 28-29 June, Bayview Hotel, Melaka, Malaysia, 2010.
 223. Khalaf I.Hamada, **M.M.Rahman**, M.M.Noor, Rosli A.Bakar, K.Kadirgama, "Heat Transfer Characteristics in Exhaust Port for Hydrogen Fueled Port Injection Engine: A Transient Approach", Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, June 28-29, Bayview Hotel, Melaka, Malaysia, 2010.
 224. Md. Ashikur Rahman Khan, **M.M. Rahman**, K. Kadirgama and M.M. Noor, "Single Order Response Surface Model to Characterize Surface Roughness on Titanium Alloy (Ti-6Al-4V) in Electrical Discharge Machining Process" Malaysian Technical Universities Conference on Engineering and Technology, MUCET2010, 28-29 June, Bayview Hotel, Melaka, Malaysia, 2010.

YEAR 2009

225. **M.M. Rahman**, Khalaf I. Hamada, M.M. Noor and K, Kadirgama, Influence Of Engine Speed On Heat Transfer Characteristics Of Port Injection Hydrogen Fueled Engine," 8th International Conference on Mechanical Engineering (ICME) 2009, 26-28 December, BUET, Dhaka, Bangladesh, 2009.
226. **M.M. Rahman**, Khalaf I. Hamada, Mohammed K. Mohammed, Rosli A. Bakar, M.M. Noor and K. Kadirgama, " Numerical Investigation of the In-cylinder Characteristics of Hydrogen Fueled Internal Combustion Engine," Proc. Of the Malaysian Technical Universities Conference on Engineering and Technology, 20-22 June, MS garden Hotel, Kuantan, Malaysia.
227. **M.M. Rahman**, Mohammed K. Mohammed and Rosli A. Bakar, " Effects of Engine Speed on Operational Parameters of Common Rail Fuel Injection System of Four Cylinder Hydrogen Fueled Engine," Conference on Alternative and Renewable Energy (CARE), 2009 in International Advanced Technology Congress (ATCi09), 3-5 November, PWTC, Kuala Lumpur, Malaysia, 2009.
228. M.S.M.Sani, M.M.Noor, K.Kadirgama, **M.M.Rahman**, M.R.M.Rejab, M.H.N.Izham, "Identification of Dynamics Modal Parameter of Car Chassis Structure", International Advance Technology Conference (ATCi 2009), Conference on Spatial and Computational Engineering (SPACE 2009), 3~5 Nov, Putra World Trade Centre (PWTC), Kuala Lumpur, Malaysia, 2009.
229. K.Kadirgama, M.M.Noor, Z.Ghazalli, **M.M.Rahman**, M.R.M.Rejab, "Software Development of Assembly Sequence Approach by using Integrated TRIZ, Axiomatic Design and Boothroyd-Dewhurst DFA", International Conference on Software Engineering and Computer Systems (**ICSECS '09**), 19~21 Oct, Swiss Garden Resort, Kuantan, 2009.
230. M.S.M.Sani, M.R.M.Rejab, M.M.Noor, K.Kadirgama, **M.M.Rahman**, I.I.A.Rahman, "Study on Stress and Modal Analysis of Automobile Tyre", International Conference on Applications and Design in Mechanical Engineering (ICADME'09), 11-13 Oct, Universiti Malaysia Perlis, Kangar, Malaysia, 2009.
231. M.R.M.Rejab, K.Kadirgama, M.M.Noor, **M.M.Rahman**, M.S.M.Sani, A.Alias, "Development of Compressive-Shear Test Rig for Polymeric Foam Material Behaviours", International Conference on Applications and Design in Mechanical Engineering (ICADME'09), 11-13 Oct, Universiti Malaysia Perlis, Kangar, Malaysia, 2009.
232. E.H.Jamaluddin, K.Kadirgama, M.M.Noor, **M.M.Rahman**, "Method of predicting, estimating and improving mean time between failures in reducing reactive work in maintenance organization", National Conference of Post Graduate Research 2009 (NCON-PGR'09), 1 Oct, Universiti Malaysia Pahang, 242~250, 2009.
233. Hemin M.Mohyaldeen, **M.M.Rahman**, M.M.Noor, K.Kadirgama, "Method of predicting, estimating and improving mean time between failures in reducing reactive work in maintenance organization", National Conference of Post Graduate Research 2009 (NCON-PGR'09), 1st Oct, Universiti Malaysia Pahang. 251~264, 2009.
234. **M.M. Rahman**, Mohammed K. Mohammed, Rosli A. Bakar and M.S.M. Sani, "Study of air fuel ratio and instantaneous behavior on crank angle of four cylinder direct injection hydrogen fueled engine," Proceedings of the World Congress on Engineering (WCE2009), July 1-3, London, UK, Vol. 2, pp. 1787-1792, 2009

235. **M.M.Rahman**, S.A.Kesulai, M.R.M.Rejab, M.S.M.Sani, K.Kadargama, M.M.Noor, "Fatigue Life Prediction of Lower Suspension Arm Using Strain-Life Approach", International Conference on Advance Mechanical Engineering (ICAME09), 22~25Jun, Concorde Hotel, Shah Alam, Selangor, 2009.
236. K.Kadargama, M.M.Noor, M.R.M.Rejab, **M.M.Rahman**, M.S.M.Sani, T.T.Mon, "Effect of End Milling Parameters on Surface Roughness Subjected To Submarine Component Machining", International Conference on Advance Mechanical Engineering (ICAME09), 22~25Jun, Concorde Hotel, Shah Alam, Selangor, 2009.
237. M.M.Noor, K.Kadargama, R.Daud, **M.M.Rahman**, M.R.M.Rejab, M.S.M.Sani, A.A.A.Rahman, "Optimize Parameter of Orthogonal and Oblique Cutting Using Adaptive Network-Fuzzy Inference System", International Conference on Advance Mechanical Engineering (ICAME09), 22~25Jun, Concorde Hotel, Shah Alam, Selangor, 2009.
238. M.R.M.Rejab, K.Kadargama, M.M.Noor, M.S.M.Sani, **M.M.Rahman**, A.Alias, "Composite Sandwich Panel Assessment under Static Loading", International Conference on Advance Mechanical Engineering (ICAME09), 22~25Jun, Concorde Hotel, Shah Alam, Selangor, 2009.
239. M.S.M.Sani, M.H.A. Rasid, M.R.M.Rejab, M.M.Noor, K.Kadargama & **M.M.Rahman**, "Experimental Study on Noise Source Identification of Split Unit Air Conditioner System" International Conference on Advance Mechanical Engineering (ICAME09), 22~25Jun, Concorde Hotel, Shah Alam, Selangor, 2009.
240. M.M.Noor, K.Kadargama, M.R.M.Rejab, **M.M.Rahman**, M.S.M.Sani, M.Y.Taib, Abdullah Ibrahim, Rosli A.Bakar, "The Effect of Entry Qualification to the Student Performance", Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET09), 20~22 Jun, Ms Garden Hotel, Kuantan, Malaysia, Vol.2, 577-582, ISBN: 978-967-5060-59-3, 2009.
241. **M.M.Rahman**, M.M.Noor, K.Kadargama, Rosli A.Bakar, M.R.M.Rejab, "Finite Element Modelling, Analysis and Fatigue Life Prediction of Lower Suspension Arm", Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET09), 20~22 Jun, Ms Garden Hotel, Kuantan, Malaysia, Vol.1, 326-332, ISBN: 978-967-5060-59-3, 2009.
242. K.Kadargama, M.M.Noor, M.S.M.Sani, **M.M.Rahman**, M.R.M.Rejab, M.Y.Taib, A.Sulaiman, Abdullah Ibrahim, Rosli A.Bakar, "Student Performance Analysis using Artificial Intelligent Technique", Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET09), 20~22 Jun, Ms Garden Hotel, Kuantan, Malaysia, Vol.2, 601-605, ISBN: 978-967-5060-59-3, 2009.
243. M.S.M.Sani, M.M.Noor, K.Kadargama, **M.M.Rahman**, A.Senawi, M.R.M.Rejab, M.Y.Taib, Abdullah Ibrahim, "Exit Surveys Assessment of Bachelor Mechanical Engineering Programs at Universiti Malaysia Pahang", Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET09), 20~22 Jun, Ms Garden Hotel, Kuantan, Malaysia, Vol.2, 592-600, ISBN: 978-967-5060-59-3, 2009.
244. M.M.Noor, M.A.Omar, I.Subuki, K.Kadargama, M.S.M.Sani, **M.M.Rahman**, Z.Hamedon, "Effect of Palm Stearin Content on the Properties of Injection Moulded 316L Stainless Steel Powder", Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET09), 20~22 Jun, Ms Garden Hotel, Kuantan, Malaysia, Vol.1, 243-246, ISBN: 978-967-5060-59-3, 2009.
245. M.M.Noor, K.Kadargama, M.R.M.Rejab, **M.M.Rahman**, Rosli A. Bakar, H.Ismail, "Artificial Intelligent Model to Predict Surface Roughness in Laser Machining", International Conference on Recent Advances in Materials, Minerals & Environment (RAMM'09), 1~3 Jun, Bayview Beach Resort, Batu Ferringhi, Penang, Malaysia, ISBN 978-983-3986-57-6, 2009.
246. M.M.Noor, K.Kadargama, **M.M.Rahman**, M.Y.Taib, M.R.M.Rejab, M.S.M.Sani, A.Sulaiman, Abdullah Ibrahim, Rosli A.Bakar, "The Effect of Entry Qualifications and Gender towards Student Performance", International Engineering Education Conference (IEEC09), 16~18May, Madinah, Kingdom of Saudi Arabia, , ISBN 978-983-43571-4-6, 131~136, 2009.
247. K.Kadargama, M.M.Noor, M.S.M.Sani, **M.M.Rahman**, M.R.M.Rejab, M.Y.Taib, A.Sulaiman, Abdullah Ibrahim, Rosli A.Bakar, "Development of Genetic Algorithms and Multilayer Perceptron Neural Network (MPNN) Model to Study the Student Performance in Thermodynamics", International Engineering Education Conference (IEEC09), 16~18 May, Madinah, Kingdom of Saudi Arabia, ISBN 978-983-43571-4-6, 137~142, 2009.

248. M.S.M.Sani, A.Senawi, M.M.Noor, **M.M.Rahman**, M.Y.Taib, A.Sulaiman, K.Kadirgama, S.H.Tomadi, R.Daud, M.R.M.Rejab, "Quantitative Assessment of Bachelor Mechanical Engineering Programs by Senior Exit Surveys at Universiti Malaysia Pahang", International Engineering Education Conference (IEEC09), 16~18 May, Madinah, Kingdom of Saudi Arabia, , ISBN 978-983-43571-4-6, 177~185, 2009.
249. M.M.Noor, K.Kadirgama, **M.M.Rahman**, Rosli A. Bakar, C.H.C.Haron, "Response Surface Method and Neural Network to Determine Surface Roughness for Laser Cutting on Acrylic Sheets", 12th CIRP International Conference On Modelling Of Machining Operations, (CIRP CMMO'09), 7-8 May, Donostia-San Sebastian, Spain, Vol. 2, 851-858, ISBN: 978-84-608-0866-4, 2009.
250. K.Kadirgama, M.M.Noor, **M.M.Rahman**, Rosli A.Bakar, B.Mohammad, "Experimental and Numerical Study of Cutting Force in End-Milling Operation Using Statistical Method", 12th CIRP International Conference On Modelling Of Machining Operations, (CIRP CMMO'09), 7-8 May, Donostia-San Sebastian, Spain, Vol. 2, 843-850, ISBN: 978-84-608-0866-4, 2009.
251. M.M.Noor, K.Kadirgama, **M.M.Rahman**, M.R.M.Rejab, Rosli A.Bakar, Abdullah Ibrahim "Education Reform Model at Faculty of Mechanical Engineering, Universiti Malaysia Pahang", International Journal Conference in Recent Trends in Mechanical Engineering, (IJCRTME09), 24~26 Apr, Trivandrum, Kerala, India, 2009.
252. **M.M. Rahman**, Muhamed K. Muhamed and Rosli A. Bakar, "Effect Of Air-Fuel Ratio On Engine Performance Of Single Cylinder Port Injection Hydrogen Fueled Engine: A Numerical Study" International MultiConference of Engineers and Computer Scientists 2009, Hong Kong, 19-21 March 2009,
253. M.R.M.Rejab, W.A.W.Hassan, M.M.Noor, K.Kadirgama, **M.M.Rahman**, A.Alias, "Energy Absorption Efficiency of Polymeric Foams under Static Compression Loading", The 1st AUN/SEED-Net Regional Conference on Materials 2009 (RCM09), 16~17 February, Equatorial Hotel Penang, Malaysia, 2009.
254. **M.M. Rahman**, A.K. Ariffin, S. Abdullah and Rosli A. Bakar, "Fatigue life prediction of cylinder head for two-stroke linear engine: A FEM Appraoch"^{3rd} International Conference on Modeling, Simulation and Applied Optimization (ICMSAO09), Sharjah, 21-23 January, 2009, UAE, pp. 1-6.
255. K.Kadirgama, M.M.Noor, **M.M.Rahman**, M.S.M.Sani, Khaled Abou- El-Hossein, "Optimized Tool life by Partial Swarm" Optimization, The 13th International ESAFORM Conference on Material Forming, 7-9 April, University of Brescia, Brescia, Italy, 2010.
256. **M.M.Rahman**, M.A.R. Khan, K.Kadirgama, M.M Noor, "An Experimental Investigation on Characteristics of Electrical Discharge Machining using High-Strength Steel Alloy", The 2010 International Conference On Mechanical and Aerospace Engineering (CMAE 2010), 16~18 Apr, Chengdu, China, 2010.

YEAR 2008

257. **M.M. Rahman**, Mohammed K. Mohammed and Rosli A. Bakar, "Trends Of Air Fuel Ratio And Crank Angle On Engine Performance of Four Cylinder Direct Injection Hydrogen Fueled Engine" Curtin University of Technology Science and Engineering International Conference (CUTSE 2008), 24-27 November 2008, Miri, Sarawak, Malaysia, pp. 1-6
258. **M.M. Rahman**, Mohammed K. Mohammed and Rosli A. Bakar, "Effects Of Air Fuel Ratio On The Performance of port injection Hydrogen Fueled Engine" Engineering Conference (ENCON 2008), 17-19 December, 2008, Crowne Plaza Riverside Resort, Kuching, Sarawak, Malaysia, pp. 775-780.
259. M.R.M.Rejab, **M.M.Rahman**, M.M.Noor and K.Kadirgama, "Effect of Multiaxial Testing on Polymeric Foams Performance for Shear-Compressive Loading" Engineering Conference (ENCON 2008), 17-19 December, 2008, Crowne Plaza Riverside Resort, Kuching, Sarawak, Malaysia, pp. 852-857.
260. K.Kadirgama, M.M.Noor, **M.M.Rahman**, M.S.M.Sani, N.M.Zuki.N.M, K. A. Abou-El-Hossein, "Prediction Modelling of Power in End-Milling", Engineering Conference (ENCON 2008), 17-19 December, 2008, Crown Plaza Riverside Resort, Kuching, Sarawak, Malaysia, pp. 858-864.
261. M.S.M.Sani, G.L. Ming, **M.M.Rahman**, A.Sulaiman, T.T.Mon, K.Kadirgama, M.M.Noor, "Dynamic Correlation Technique and Model Updating on Go Kart Chassis Structure" Engineering Conference (ENCON 2008), 17-19 December, 2008, Crowne Plaza Riverside Resort, Kuching, Sarawak, Malaysia, pp. 706-711

262. M.M.Noor, K.Kadirgama, **M.M.Rahman**, M.S.M.Sani, M.R.M.Rejab, "Development of Auto Car Jack Using Internal Car 12 volts Power", Malaysian Science and Technology Congress, MSTC08, 16~17 Dec 2008, KLCC, Malaysia, pp. 593-598.
263. K.Kadirgama, M.M.Noor, N.M.Zuki N.M., M.R.M.Rejab, M.S.M.Sani, **M.M.Rahman**, "Design a New Household Recycle Trash Bin", Malaysian Science and Technology Congress, MSTC08, 16~17 Dec 2008, KLCC, Malaysia, pp. 512-516.
264. **M.M.Rahman**, M.S.M.Sani, M.R.M.Rejab, M.M.Noor, K.Kadirgama, "Study of Air Fuel Ratio on Engine Performance of Direct Injection Hydrogen Fuelled Engine", Malaysian Science and Technology Congress, MSTC08, 16~17 Dec 2008, KLCC, Malaysia, pp. 587-592.
265. M.S.M.Sani, **M.M. Rahman**, M.M.Noor, K.Kadirgama, M.R.M.Rejab, "Study on Dynamic Characteristics of Automotive Shock Absorber System", Malaysian Science and Technology Congress, MSTC08, 16~17 Dec 2008, KLCC, Malaysia, pp. 623-628.
266. M.R.M.Rejab, **M.M.Rahman**, Z.Hamedon, M.S.M.Sani, M.M.Noor, K.Kadirgama, "An Evaluation of Profiles for Disk Cams with In-line Roller Followers in Horizontal Position", Malaysian Science and Technology Congress, MSTC08, 16~17 Dec 2008, KLCC, Malaysia, pp. 608-614.
267. Al-Asady, N.A., Abdullah, S., Ariffin, A.K., Beden, S. M and **Rahman, M.M.** FEA-Based Fatigue Assessment of Different Medium Carbon Steel as a fabrication Materials For an Automotive Component. Malaysian Metallurgical Conference (MMC 2008), 3-4 December, UKM, Bangi, Malaysia 2008, pp. 109-118.
268. K.Kadirgama, M.M.Noor, R. Daud, **M.M.Rahman**, N.M.Zuki.N.M, M.R.M.Rejab, B.Mohammad, "Design and Development of Blow Mould using Machining Optimization Parameters" National Conference on Design and Concurrent Engineering (DECON 2008), 28-29 October, 2008, Avillion Legacy Hotel, Melaka, Malaysia, pp. 211-215
269. M.R.M.Rejab, M.M.Noor, **M.M.Rahman**, A.Sulaiman, K.Kadirgama, M.S.M.Sani, A.N.M.Rose, M.N.O.Zahid & R.A.Bakar, "Implementation of Outcome Based Education in the Faculty of Mechanical Engineering, Universiti Malaysia Pahang: An Experience" 4th International Conference on University Learning and Teaching, 20-21 October 2008, Shah Alam, Malaysia, pp. 311-316.
270. M.M.Noor, M.R.M.Rejab, M.S.M.Sani, A. Sulaiman, **M.M.Rahman**, K.Kadirgama, A.N.M.Rose, R.A.Bakar, "Quality Management System in the Implementation of OBE at Faculty of Mechanical Engineering, Universiti Malaysia Pahang", 4th International Conference on University Learning and Teaching, 20-21 October, 2008, Shah Alam, Malaysia, pp. 277-285.
271. S. Abdullah, S. M. Beden, A. K. Ariffin, Z. M. Nopiah, A. Zaharim and **M. M. Rahman**. Fatigue Life Assessment of A Shell Structure from Different Steel Types: A Case Study Using Variable Amplitude Loadings. 8th WSEAS International Conference on SIMULATION, MODELLING and OPTIMIZATION (SMO '08). Santander, Cantabria, Spain, September 23-25, 2008, pp. 1203-1209.
272. S. M. Beden, S. Abdullah, A. K. Ariffin and **M.M. Rahman**. 2008. Using Stress and Strain Live Methods for Fatigue Life Prediction of Shell Structure under Constant and Variable Amplitude Loading. Engineering Postgraduate Conference (EPC), 12-13 September, 2008. National University of Malaysia, Bangi, Malaysia, pp. 87-93.
273. Al-Asady, N.A., Abdullah, S., Ariffin, A.K., Beden, S. M and **Rahman, M.M.** Effect of shot peening process on lower suspension arm: a case study in FEA based durability. Proceeding of Engineering Postgraduate Conference (EPC), 12-13 September, UKM, Bangi, Malaysia, 2008, pp. 123-128.
274. **M.M. Rahman**, A;K. Ariffin, S. Abdullah, M.R.M. Rejab and Rosli A. Bakar., "Durability Assessment of cylinder block for two-stroke free piston linear engine using narrow band approach", 2nd Regional Conference on Vehicle Engineering and Technology (RIVET 2008), 15-17 July 2008, Kuala Lumpur, Malaysia, pp. 428-438.
275. N.A. Al-Asady, S. Abdullah, A. K. Ariffin and **M.M. Rahman**, "Effects of surface finish on the fatigue life assessment using finite element analysis: a case study of a lower suspension arm" 2nd Regional Conference on Vehicle Engineering and Technology (RIVET 2008), 15-17 July 2008, Kuala Lumpur, Malaysia, pp. 213-216.
276. N. M. Zuki. N. M., **M. M. Rahman**, M. M. Noor, K. Kadirgama and M. R. M. Rejab, "An Investigation into the Effect of Materials on Joining for Automotive Panel using Tailor Welded Blanks", Regional Conference on Vehicle Engineering and Technology (RIVET2008), 15-17 July, 2008, Kuala Lumpur, Malaysia, pp. 20-24.

277. **M.M. Rahman**, Rosli A.Bakar, M.S.M. Sani and M.M. Noor, "Investigation Into Surface Treatment On Fatigue Life For Cylinder Block Of Linear Engine Using Frequency Response Approach", 15th International Congress on Sound and Vibrations, 6-10 July, 2008, South Korea, pp. 2119-2127.
278. **M.M. Rahman**, A.K. Ariffin, S. Abdullah and Rosli A. Bakar, "Finite Element Based Fatigue Life Prediction of Cylinder Head for Two-Stroke Linear Engine", UMT 7th International Symposium on Sustainability Science and management (UMTAS 2008), 8-10 June 2008, Kuala Terengganu, Malaysia, pp. 1-14.
279. N.M.Z.N. Mohamed, **M.M. Rahman**, Azmir, M.A., M.M. Noor and M. Hafizuddin, "Regenerative Chatter in End Milling on Mould Aluminum Alloy" UMT 7th International Symposium on Sustainability Science and management (UMTAS 2008), 8-10 June 2008, Kuala Terengganu, Malaysia.
280. M.M.Noar, **M. M. Rahman**, K.Kadirgama, Z.Ghazali and M.R.M.Rejab, "Development of A Cutting Tool for Printed Circuit Board Using Mild Steel" UMT 7th International Symposium on Sustainability Science and management (UMTAS 2008), 8-10 June 2008, Kuala Terengganu, Malaysia.
281. Al-Asady, N.A., Abdullah, S., Ariffin, A.K., **Rahman, M.M.** and Beden, S. M. 2008. Improving the automotive lower suspension arm durability using finite element analysis. Proceeding of Seminar on Engineering Mathematics, Cameroon Highlands, Malaysia, pp. 138-143.
282. Bedan S. M., Abdullah S., Ariffin A. K., **Rahman M. M.** And Al-Asady N.A, "Effect of Mesh Size of Finite Element Analysis in Fatigue Life Assessment for Pipe Elbows" Proceeding of Seminar on Engineering Mathematics 2008, Cameroon Highlands, Malaysia, pp. 87-93.
283. A.N. M. Rose, M.M. Noor, Julie J. Mohamed, M.R.M. Rejab, M. Khairif and **M.M. Rahman**, "Polypropylene Reinforced with Recycle Polyethylene Terephthalate as an Alternative materials for New Plastic Product" UMT 7th International Symposium on Sustainability Science and management (UMTAS 2008), 8-10 June 2008, Kuala Terengganu, Malaysia.
284. **M.M. Rahman**. Rosli A. Bakar, M.M. Noor, M.S.M. Sani and Julie J. Mohamed, "Effects of spot diameter and sheets thickness on fatigue life of spot welded structure based on FEA" International Conference on Mechanical and Manufacturing Engineering (ICME 2008), 21- 23 May, 2008, Johor Baharu, Malaysia, pp. 1-8.
285. **M. M. Rahman**, A. K. Ariffin and Rosli Abu Bakar, Finite Element based Durability Assessment of Automotive Component. *Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2008)*, 15-16 March 2008. Putra Palace, Parlis, Malaysia, pp.105-111.
286. M.R.M.Rejab, C.W.Theng, **M.M.Rahman**, M.M.Noar and A.N.M.Rose. An Investigation into the Effects of Fibre Volume Fraction on GFRP Plate. *Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2008)*. 15-16 March 2008. Putra Palace, Parlis, Malaysia, pp.143-149.
287. **M. M. Rahman**, A. K. Ariffin, S. Abdullah and Rosli A. B. 2007. Assessment of Multiaxial Fatigue Behavior of Cylinder Head for A New Free Piston Linear Engine. *Proceedings in the 6th International Conference on Mechanical Engineering (ICME 2007)*, 30 Dec 2007-1 Jan 2008, BUET, Dhaka, Bangladesh. Pp. AT06-1-6.

YEAR 2007

288. Ibrahim, N.M.I.N., Ismail, A., Rahim, M.F., Bakar, R.A. and **Rahman, M.M.**, " Visualization of the Scavenging Process for Two-stroke Spark Ignition (SI) Engine using CFD", Proceeding in the 1st Conference on Design, Simulation, Product Development and Optimization (Product & Design 2007), PARKROYAL Hotels and Resorts, Penang, Malaysia, December 10-11, 2007, pp. 189-203.
289. Rosli, A.B., Othman, M.F., Sulaiman, A.S. and **Rahman, M.M.**, " Stress Analysis of the Compressed Natural Gas (CNG) type-1 Pressure Vessel: Cylindrical Part" Proceeding in the 1st Conference on Design, Simulation, Product Development and Optimization (Product & Design 2007), PARKROYAL Hotels and Resorts, Penang, Malaysia, December 10-11, 2007, pp. 98-103.
290. **M. M. Rahman**, Rosli, A.B., M. M. Noor, M.S.M. Sani and M.R.M. Rejab, " Fatigue Analysis of Spot-welded Joints using Finite Element Analysis Approach" Proceedings in the Regional Conference on Computational and Experimental Mechanics (CEM), Putrajaya, Palm Garden Hotel, Malaysia, 27-28 November, 2007, pp. 228-238.

291. S.M. Beden, S. Abdullah, A.K. Ariffin and **M. M. Rahman**, "Study of Crack Initiation in Shell Structure using Finite Element Analysis" Proceedings in the Regional Conference on Computational and Experimental Mechanics(CEM), Putrajaya, Palm Garden Hotel, Malaysia, 27-28 November, 2007, pp. 203-211.
292. N.A. Al-Asady, S. Abdullah, A.K. Ariffin and **M. M. Rahman**, "Fatigue Life Prediction of a Lower Suspension Arm for an Automotive using FEA approach" Proceedings in the Regional Conference on Computational and Experimental Mechanics(CEM), Putrajaya, Palm Garden Hotel, Malaysia, 27-28 November, 2007, pp. 195-202.
293. S. M. Beden, S. Abdullah, A. K. Ariffin and **M. M. Rahman**. 2007. Life Prediction of Shell Structure under Variable Amplitude Loadings. Conference on Applications and Design in Mechanical Engineering, 25-26 October 2007, Kangar, Perlis, Malaysia, pp. 123-132.

YEAR 2006

294. **M. M. Rahman** and A. K. Ariffin, "Improvement of fatigue life of a new two-stroke free piston engine component using the nitriding surface treatment process" Proceedings in the 1st Regional Conference on Vehicle Engineering and Technology, Kuala Lumpur, Malaysia, 03-05 July 2006, pp. 1-10.

YEAR 2005

295. **M. M. Rahman**, A. K. Ariffin, Nuraini A. A. and M. M.A. Khan "Effects of Surface Treatments on the Fatigue Behaviour of Cylinder Block for A New Two-Stroke Free Piston Engine" *Proc. In the 6th International conference on Mechanical Engineering (ICME-2005)*, BUET, Dhaka, Bangladesh, 28-30 December 2005, AT-02, pp.1-6.
296. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron, "Prediction of Fatigue Lifetime Caused to Vibrating Cylinder Block of A Two-Stroke Free Piston Engine Using Transient Dynamic Approach" Proceedings of the Conference on Spatial and Computational Engineering (SPACE 2005), *International Advanced Technology Congress*, IOI Marriott Hotel, Putrajaya, Malaysia, 6-8 December, 2005, pp. 1-10.
297. **M. M. Rahman** and A. K. Ariffin, "Effects of Surface Finish and Treatment on the Fatigue Behaviour of Vibrating Cylinder Block using Frequency Response Approach", *Proc. Of the Asia-Pacific Vibration Conference*, The Andaman Resort, Langkawi, Malaysia, 23-25 November 2005, pp. 551-556.
298. **M. M. Rahman**, A. K. Ariffin and Tulus, " Influence of surface treatments of fatigue life of a free piston engine linear generator engine components using random loading" *Proc. Of the International Conference on Applied Mathematics (ICAM05)*, 22-26 August 2005, ITB, Bandung, Indonesia, pp. 596-610, ISBN 90-365-2244-7.
299. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron, "Prediction of Fatigue Life of Aluminum Alloys Cylinder Block Subjected to Constant and Variable Amplitude Loading Conditions using Total Life Approach", *Proc. Of the Brunei International conference on Engineering and Technology (BICET2005)*, Institut Teknologi Brunei, Bandar Seri Begawan, Brunei Darussalam. 15-18 August 2005, vol. 5, pp. 139-150.
300. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron, "Fundamental Aspects of Finite Element Based Durability and Fatigue Analysis of Linear Generator Engine". *Proc. Of the International Conference on Recent Advances in Mechanical and Materials Engineering (ICRAMME 2005)*, Balai Tungku Abdul Aziz, UM, Malaysia, 30-31 May, 2005, pp. 1105-1110, ISBN 983-41728-2-6.
301. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron, "Analytical and Finite Element based Fatigue Life Assessment of Vibration Induced Fatigue Damage", *Proc. Of 2nd International Conference on Research and Education in Mathematics 2005 (ICREM2)*, Residence Hotel, UNITEN, Bangi, Malaysia, May 25-27, 2005, pp. 331-345.
302. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron, "Vibration Fatigue Analysis of Linear Generator Engine Using Frequency Response Approach". *Proc. Of the National Seminar on Advances in Malaysian Noise, Vibration and Comfort 2005(NVC-2005)*, ESSET KWSP, Bangi, Malaysia, 17-18, May 2005, pp.277-286, ISBN 983-2975-41-6.
303. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C. H. C. Haron, "Vibration Fatigue Analysis of a New Two-stroke Linear Generator Engine using Finite Element

- Simulation". *Proc. Of the National Seminar on Computational and Experimental Mechanics (CEM-2005)*, ESSET KWSP, Bangi, Malaysia, 17-18, May 2005, pp. 259-267, ISBN 983-2975-41-7.
304. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C. H. C. Haron, "Finite Element Based Life Prediction of Linear Generator Engine Mounting". *Proc. Of the National Seminar on Computational and Experimental Mechanics (CEM-2005)*, ESSET KWSP, Bangi, **Malaysia**, 17-18, May 2005, pp. 313-321, ISBN 983-2975-41-7.
305. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C.H.C. Haron, "Prediction of Lifetime of Cylinder head in the Two-stroke Free Piston Engine". *Proc. Of the 2nd International Conference on Mechatronics 2005 (ICOM05)*, Hotel Pan Pacific, Kuala Lumpur, Malaysia, 10-12 May 2005. Pp. 677-684, ISBN 983-2957-57-5.
306. **M. M. Rahman**, A. K. Ariffin, N. Jamaludin and C. H. C. Haron, "Modeling and Analysis of Cylinder Block of Linear Generator Engine for Fatigue Durability". CD-ROM *Proc. Of the 4th International Conference on Numerical Analysis in Engineering (NAE-2005)*, Santica Hotel, Yogyakarta, Indonesia, 8-9 April, 2005.

YEAR 2004 AND BELOW

307. **Md. Mustafizur Rahman**, Ahmad Kamal Ariffin, Nordin Jamaludin and Che Hassan Che Haron, "Durability and Fatigue analysis of linear Engine", *Proc. Of the Seminar Pelajar Siswazah*, ESSET KWSP, Bangi, Malaysia, August 10-11, 2004, pp. 258-262.
308. **Md. Mustafizur Rahman**, Ahmad Kamal Ariffin, Nordin Jamaludin and Che Hassan Che Haron, "Contact Analysis of Piston Rings and Cylinder Liner in the Linear Generator Engine", *Proc. Of the 4th Colloquium of Department of Mechanical and Materials Engineering*, Pulau Pinang, Malaysia, 10-12 October 2003, pp. 93-98, ISBN 983-2975-03-4.
309. ABM Abdul Malek, M. M. A. Khan, **Md. Mustafizur Rahman**, "Greenhouse Gas Emission: Bangladesh Perspective" *Proc. Of 2nd International Conference and 7th Annual Paper meet organized by the Institution of Engineers, Bangladesh (IEB)*, Mechanical Division, Dhaka, Bangladesh, Feb 15-17, 2002, pp. 227-236, ISBN: 984-31-1526-0.
310. **Md. Mustafizur Rahman**, M. M. A. Khan, ABM Abdul Malek, "Vision of the Future: Engineering Design Environment", *Proc. Of 4th International Conference on Mechanical Engineering (ICME)* organized by the Department of Mechanical Engineering, BUET, Dhaka, Bangladesh, Dec. 26-28, 2001, vol. 1, ISBN : 984-32-0038-1.
311. **Md. Mustafizur Rahman**, M.M.A. Khan, "A Strategic Approach of Environmentally Clean Machining" *Proc. Of 4th International Conference on Mechanical Engineering (ICME)* organized by the department of Mechanical Engineering, BUET, Dhaka, Bangladesh, Dec. 26-28, 2001, Vol. 3, pp. 49-54, ISBN: 984-32-0038-1.
312. M. H. Ahsan, M. A. Saklyen, **M.M. Rahman**, and M. N. Islam, " Design of a Small Scale Radiography Facility Using a 252 Cf Neutron Source for Shahjalal University of Science and Technology, Sylhet, Bangladesh", *Proc. Of Sixth World Conference in Neutron Radiography*, OSAKA, JAPAN, May 17-21, 1999.
313. **Rahman, M. M.**, and Islam, AKM S., "Prediction of Secondary Recirculation in Laminar Flow Through Planar and Annular Backsteps", *Proc. Of 2nd International Conference and 4th Annual Paper Meet '97*, Institute of Engineers, Bangladesh (IEB), Bangladesh, Sep. 23-25, 1997, pp. 1-10.
314. Islam, AKM S., and **Rahman, M.M.**, "Prediction of Laminar Separation over an Annular Backsteps", *Proc. Of 1st International Seminar on Fluid Mechanics Research* organized by the department of Mechanical Engineering, BUET, Dhaka, Bangladesh, Dec. 27-28, 1995, pp. 123-135.

CONSULTANCY/ INDUSTRIAL TECHNICAL SERVICE

1. Open University Technical Service for Course Amali , Session January 2010, UIC090285/158
2. Consultation for Pengkalan Offshore Sdn Bhd. The Effect of different quenching rate on the steel microstructure and strength. Vot No. UIC080102. Nov ~ March 2009.
3. Consultancy service for IIUM. Title: Fundamental study of new eco-core metal matrix composite sandwich structure. Duration: 11 October 2010 to 31 March 2013. (Vote no: UMP.14.04/12/20/3(86))
4. Consultancy service for IIUM. Title: Prototype Development of Light Weight Aluminium

Matrix Composite Automotive Brake Rotor. Duration: 10 October 2012 to 30 September 2014. (Vote no: UMP.14.04/12/20/3(81))

5. Consultancy service for IIUM. Title: Characterization of Tribo-Corrosion Using Jatropha Curcas Linnaeus Biodiesel for Automotive Engine Component Materials. Duration: 10 October 2012 to 31 December 2013. (Vote no: UMP.14.04/12/20/3(85))
6. Worked as Team Leader for the Bureau of Research, Testing and Consultation (BRTC), KUET Consultancy Project on "Consultancy Services for Various Strength Calculation of a Vessel and Hardness Testing of Jute mill machinery components, Platinum Jubilee Jute Mill (Ptv) Limited, Khulna, Bangladesh. Duration: May 1996 –February 1998.
7. Worked as Team Leader for the Bureau of Research, Testing and Consultation (BRTC), KUET Consultancy Project on "Consultancy Services for fatigue testing and Hardness Testing of Jute mill machinery components, People's Jute Mill (Ptv) Limited, Khulna, Bangladesh. Duration: May 1996 –February 1998.

REFEREES

PROF. DATO' DR. DAING MOHD NASIR DAING IBRAHIM

VICE CHANCELLOR

Universiti Malaysia Pahang

Lebuhraya Tun Razak, 26300 Kuantan, Pahang, Malaysia

Email: daing@ump.edu.my

Phone: 09-549 2602

ASSOCIATE PROFESSOR DR. RIZALMAN MAMAT

Dean

Faculty of Mechanical Engineering,

Universiti Malaysia Pahang

26600 Pekan, Pahang, Malaysia

Email: rizalman@ump.edu.my

Phone: 0139290709

PROFESSOR DR. AHMAD KAMAL ARIFFIN

Deputy Dean

Faculty of Engineering and Built Environment,

Universiti Kebangsaan Malaysia

43600 UKM Bangi, Selangor, Malaysia

Email: kamal@eng.ukm.my

Phone: +6-013-3485488 ; +60192735012, Fax: +603- 89259659

PROFESSOR DR. CHE HASSAN CHE HARON

Department of Mechanical and Materials Engineering

Faculty of Engineering, Universiti Kebangsaan Malaysia

43600 UKM Bangi, Selangor, Malaysia

Email: chase@eng.ukm.my

Phone : 0133914792

I hereby declare that the information that I have given in this Curriculum Vita is true and correct.



PROF. DR. MD. MUSTAFIZUR RAHMAN

Date: 18 March 2015