

**HAZRAN HUSAIN**  
(MyRA IMPACT ACTIVITIES)

*(Please use this template as primary impact activities, other information please include as attachment)*

Name :	Hazran bin Husain
Faculty :	Faculty of Mechanical Engineering
Staff No :	249667
Grade of Position (VK7/DM54/DM52 etc)	DM52
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**BASIC PROFILE**

Lecturer DM45

Appointments	Date/Year of Appointment
Lecturer DM45/DM46	24 Nov 2008
Lecturer DM52/DM51	25 Okt 2013
Lecturer DM53/DM54/DT1	
Professor (VK7)	
Professor (VK6)	
Year of Birth :	1981
<b>Ph.D Qualification (Year Obtained)</b>	-
<b>Professional Qualification (Year Obtained)</b>	-

**NATIONAL LEVEL RESEARCH COMMITTEE**

*(Only those within last five years)*

	Name of Research Committee	Hosting Secretariat	Year Involved
1	-		
2			
3			
4			

**POSTGRADUATE SUPERVISION***(Only those within last five years, Please indicate if it is at other institutions)***MASTER (RESEARCH) SUPERVISION COMPLETED (Includes Co-supervision)**

	Students Name	Institutions	Year Enrolled	Year End
1	-			
2				
3				
4				

**PhD SUPERVISION COMPLETED (Includes Co-supervision)**

	Students Name	Institutions	Year Enrolled	Year End
1	-			
2				
3				
4				
5				

**ON-GOING POSTGRADUATE (RESEARCH) SUPERVISION (Includes Co-supervision)**

	Students Name	Institutions	Year Enrolled	Year End
1	-			
2				
3				
4				
5				

**On-Going PhD SUPERVISION (Includes Co-supervision)**

	Students Name	Institutions	Year Enrolled	Year End
1	-			
2				
3				
4				
5				

**RESEARCH FUNDINGS** (State whether Principal/Co-Researcher)**NATIONAL LEVEL ACTIVE RESEARCH FUNDING (MOSTI/FRGS & Others) (Last Five Years)**

	Research Project	Source	Total Funds	Begin Year	End Year
1	<b>Co-Researcher</b> , Computational Analysis on Thermal Stress in Diesel Particulate Filter During Soot Loading and Regeneration	FRGS	RM128,000	2011	2013
2	<b>Principal Researcher</b> , New Flow Field Configurations and Process Visualization of a Polymer Electrolyte Membrane Fuel Cell Bipolar Plate in Effective Water Flooding Management	FRGS	RM37,000.00	2010	2012
3	<b>Co-Researcher</b> , Investigation on Structural Features and Fuel Properties of Bio-Chars from Carbonization of Biomass in Various Pyrolyzing Environments and Gas Compositions	FRGS	RM48,000	2010	2012

**INDUSTRIAL RESEARCH FUNDING INCLUDING CONTRACT RESEARCH (Last Five Years)**

	Research Project	Source	Total Funds	Begin Year	End Year
1					
2					
3					
4					
5					

**INTERNATIONAL RESEARCH FUNDING INCLUDING CONTRACT RESEARCH (Last Five Years)**

	Research Project	Source	Total Funds	Begin Year	End Year
1					
2					
3					
4					
5					

**Dana Kecemerlangan UiTM (Last Five Years)**

	Research Project	Total Funds	Begin Year	End Year
1	<b>Principal Researcher</b> , Investigation on Thermal Properties and Performance Alternative Fill Packing Material for Evaporative Cooling	RM32,000	2012	2014
2	<b>Co-Researcher</b> , Measurement of Flame Burning Velocity of Gaseous Explosions Using Schlieren Imaging Technique	RM32,000	2012	2014
3	<b>Co-Researcher</b> , The Characteristic of Potential Solar Thermal on the Development of Solar Oven in the Malaysia Climate	RM5,000	2010	2010

**PUBLICATIONS (Only those indexed in IEEE/ISI/SCOPUS)**

**PUBLICATIONS FOR 2015**

- [1] Zarina Itan, Hazran Husain, "Modeling of Alkali-Silica Reaction in a Two-Phased Material Model", Jurnal Teknologi, Penerbit Universiti Teknologi Malaysia, Volume 76 Issue 9, pages 13-17.
- [2] Nor Hafiez Bin Mohamad Nor, Juri Bin Saedon, Muhammad Hussain Bin Ismail, Hazran Bin Husain, "Compressive Mechanical Properties Of Porous Ti-6Al-4V With Palm Stearin Binder System", Jurnal Teknologi, Penerbit Universiti Teknologi Malaysia, Volume 76 Issue 6, pages 43-47.

**PUBLICATIONS FOR 2013**

- [1] Juri Bin Saedon, Mohd Suhairil Bin Meon, Muhamad Fauzi Bin Othman, Hazran Bin Husain, Mohd Syahar Bin Mohd Shawal, Paul Ding Jr., "Influence Of Machining Parameters On Surface Roughness In Wedm Titanium Alloy", Advanced Materials Research, Trans Tech Publications Switzerland, Volume 701 Issue 2013, pages 349-353.
- [2] Mohd Suhairil Bin Meon, Mahamad Hisyam Bin Mahamad Basri, Juri Bin Saedon (dr), Hazran Bin Husain, Muhamad Fauzi Bin Othman,, "Effect Of Tube's Length And Annealing Temperature On Energy Absorption Of Aluminium Alloy Tube 6061-T6 Under Inversion Collapse Mode", Advanced Materials Research, Trans Tech Publications Switzerland, Volume 701 Issue 2013, pages 82-86.
- [3] Juri Bin Saedon, Muhamad Fauzi Bin Othman, Mohd Suhairil Bin Meon, Hazran Bin Husain, A. Hakim A. Halim, "Influence Of Cutting Edge Radius In Micromachining Aisi D2", Applied Mechanics And Materials, Trans Tech Publications Switzerland, Volume 393 Issue 2013, pages 253-258.
- [4] Mohd Suhairil Bin Meon, Muhamad Fauzi Bin Othman, Hazran Bin Husain, Juri Bin Saedon, Mohd Izzul Khairi Zailani, "Study On Fatigue Crack Growth Of 6065-T4 Aluminium Alloy At Different Stress Ratio", Applied Mechanics And Materials, Trans Tech Publications Switzerland, Volume 393 Issue 2013, pages 435-440.

**PUBLICATIONS FOR 2012**

- [1] Mohd Suhairil Meon, Muhamad Fauzi Othman, Hazran Husain, Muhammad Fairuz Remeli, Mohd Syahar Mohd Syawal," Improving Tensile Properties of Kenaf Fibers Treated with Sodium Hydroxide", Procedia Engineering, Volume 41, 2012, pages 1587-1592 .
- [2] Mohammad Azzeim Mat Jusoh, Mohd Syahar Mohd Shawal, Mohd Nor Fadhli Mohammad, Helmi Rashid, Razali Hassan, Muhamad Fauzi Othman, Hazran Husain, "Integration of Engineering Design and CAE Tools in Generating the Preliminary Design of a Vacuum Chamber for Internal Combustion Use", Procedia Engineering, Volume 41, pages 1769-1774
- [3] Mohd Suhairil Bin Meon, Hazran Bin Husain, "Investigation Of The Amount Of Energy Absorption Of Aluminium Tube : Inversion And Concertina Collapse Mode", International Journal On Advanced Science, Engineering And Information Technology (IJASEIT), Indonesian Students Association (PPI) of Universiti Kebangsaan Malaysia in collaboration with the Indonesian Society for Knowledge and Human Development (INSIGHT), Volume 2 Issue 3, pages 69-73

**PUBLICATIONS FOR 2011**

- [1] K.I. Sainan, R. Atan, H. Husain, W.A.N.W. Mohamed, "Computational Model Analysis on a Bipolar Plate Flow Field Design of a PEM Fuel Cell 132", 5<sup>th</sup> International Power Engineering and Optimization Conference, PEOCO 2011.

- [2] M. M. Khushairi, H. Abdullah, H. Hazran, "A Study on the Optimization of Control Strategy of a Thermal Energy Storage System for Building Air-Conditioning", *Procedia Engineering*, Volume 20, 2011, Pages 118-124.
- [3] Hazran Husain, Mohd Suhairil Meon, Muhammad Fairuz Remeli, Mohd Syahar Mohd Shawal and Muhamad Fauzi Othman, "The Effect of Cross-head Velocity and Length of Tube on the Rate of Energy Absorption under Concertina Collapse Mode", *The 2011 IEEE Symposium on Business, Engineering and Industrial Applications, ISBEIA 2011*.
- [4] Mohd Suhairil Meon, Hazran Husain, Muhammad Fairuz Remeli, Mohd Syahar Mohd Shawal and Muhamad Fauzi Othman, "The Effect of Cross-head Velocity and Length of Tube on Energy Absorption of Aluminium Tube", *The 2011 IEEE Symposium on Business, Engineering and Industrial Applications, ISBEIA 2011*.