

## CURRICULUM VITAE



Prof. Madya Ir Dr. Nor Mariah Adam  
Jabatan Kejuruteraan Mekanikal dan Pembuatan,  
Universiti Putra Malaysia,  
43400 UPM Serdang, Selangor

T: +603-8946 6345  
F: +603-8656 7122

### Education

1. PhD (ventilation and Indoor Air Quality) 1995 University of Nottingham UK
2. M.S. Agricultural Engineering, 1985, Michigan State University. USA
3. B. Sc hons (Mechanical Engineering with Mathematics). 1981 University of Reading, UK.

### Areas of Interest

1. Mechanical engineering emphasis on energy, indoor air quality and safety

### Professional Qualification/ Membership/ Affiliation

1. Member, Board of Engineers Malaysia (BEM) Mechanical 10571
2. Corporate Member, Institution of Engineers Malaysia, M18774
3. Member Institution of Masters in Disaster and Emergency Management Malaysia (Vice President)
4. Member Alpha Epsilon Michigan State University

### Appointments

| Position  | Duration            |
|---|---------------------|
| 1. Associate Professor, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM | July 2001 to date   |
| 2. Head, Alternative and Renewable Energy Laboratory Advanced Institute of Technology (ITMA) UPM            | 2007– December 2010 |

### Publications

#### Journals (30 recent journals)

1. Hayder Muhi Abbood, Eris Elianddy Supeni, **Nor Mariah Adam**, "Energy Management in Residential Buildings in Iraq: A Human Factor Approach", *Journal of Engineering Science and Technology* (in press)
2. M.W. Muhieldeen, N.M. Adam, B.H. Salman (2015), "Experimental and numerical studies of reducing cooling load of lecture hall", *Journal Energy and Buildings*, Volume 89, 163 – 169 CIJ 2.46 Q1 Scopus
3. Saud Alanbari, A Khalina, A Nor Mariah, A Yahya, "Risk Assessment of Safety and Health (RASH) for Building Construction", *Journal Process Safety and Environmental Protection*, Volume 94 page 149-158 2015 IF Scopus
4. Saeed J Abed Ali, **Nor Mariah Adam**, Eris E Supeni "A Review of Building Time Schedule for Manufacturing Textile by Estimation Productivity Rates Using Simulation in Iraq", *Australian Journal of Basic and Applied Sciences* Volume XiXi page 2015 (in press)
5. Chua Poh Choo, Juliana Jalaludin, Titi Rahmawati and **Nor Mariah Adam**, "Indoor Air Quality Assessment and Lung Function Among Children In Preschool at Selangor Malaysia", *Journal Advances in Environmental Biology* Volume 9(9) page 1-9 2015 Scopus
6. Saud Alanbari, Khalina Abdan, Azmi Yahya, **Nor Mariah Adam**, Ali Al Nuaimi, "Safety and Health Risk Assessment At Oman Building Construction Projects", *Journal International of Research in Engineering and Technology*, Volume 3 Issue 2, 2014 IF 1.962 Scopus
7. Yusoff WF, Sapian AR, Salleh E, **NM Adam** and Hamzah Z, "Mass flow rate of Induced by Combined Roof Solar Collector and Vertical Stack in Hot Humid Climate," *Journal Green Building*, Volume 9 Number 1, 2014 (ISI, Scopus)

8. Tuqa Abduleazzaq, Hussein Togun, MKA Ariffin, SN Kazi, A Badarudin, **NM Adam** , S Masuri "Heat Transfer and Turbulent Fluid Flow over Vertical Double Forward-Facing Step", World Academy of Science, Engineering and Technology. *International Journal of Mechanical, Industrial Science and Engineering*, Volume 8 Number 2, p1-5 2014
9. AA Alfaryjat, HA Mohammed, **Nor Mariah Adam** , MKA Ariffin, MI Najafabadi,"Influence of Geometric Parameters of Hexagonal, Circular and Rhombus Micro-channel Heat Sinks on the Thermo-hydraulic Characteristics" *Journal International Communications in Heat and Mass Transfer*, Volume 52, p 121 – 131 2014
10. Pourzolfaghar Z, Ibrahim I, Abdullah R and **NM Adam** , "A Technique to Capture Multi-Disciplinary Tacit Knowledge During the Conceptual Design Phase of A Building Project, *Journal of Information and Knowledge Management* June 2014 (accepted)\_
11. R. E. Putri, A. Yahya, N. M. AdMm, S. Abd Aziz and T. A. Ishola. Calibration and Accuracy Determination of a Microwave Type Sensor for Measuring Grain Flow. *Journal of Advanced Materials Research*, 2014 (Accepted). (Indexed by Scopus).
12. Tezara C, Adam NM, Juliana J, Mariani M, Siregar JP "Monitoring of the Indoor Air Quality Parameters in The Day Care Centers in Tropical Country" *Journal of Mechanical Engineering* Volume 3 Issue 1 p 47 -52
13. Qi Jie Kwong, **Nor Mariah Adam** . Sind Hoi Goh, Vijay R Raghavan , "A study on energy efficiency improvement opportunities for plug loads in buildings in the equatorial region", *Journal Energy Procedia* Volume p 621-633 2014 (accepted)
14. Ali M Wahhad, **Nor Mariah Adam** , SM Sapuan and Ahmad Alarabi " A Thermal Study of Modern Office Building in Desert Climate in Southern Libya", *Journal of Food, Agriculture and Environment*, Volume 12 Issue 2 p 1153-1158 2014
15. Khai Mun Ng, **Nor Mariah Adam** , Othman Inayatullah and Mohd Zainal Abidin Ab Kadir"Assessment of solar radiation on diversely oriented surfaces and optimum tilts for solar absorbers in Malaysian tropical latitude", *International Journal of Energy and Environmental Engineering* Volume 1, Issue 5 p 55 -67 2014
16. Qi Jie Kwong, **Nor Mariah Adam** , BB Sahari "Thermal Comfort Assessment and Potential for EnergyEfficiency Enhancement in Modern Tropical Buildings: A Review" *Journal Energy and Buildings*,Volume 08 p 547-557 2014 (Q1)
17. Solomon O Giwa, Luqman A Chuah and **Nor Mariah Adam** , "Trans-esterification Optimization And Evaluation of Biodiesel Produced From Seed Oil of *Colocynthis Citrullus L.*", *Journal Advance in Energy*, Volume 1 Issue 1, p1-9 2013
18. Qi Jie Kwong, **Nor Mariah Adam** , Ideris Hadzir and Ijhar Hidayat Rusli "Assessment of Energy Saving Potentials for Protected Spaces in Commercial Buildings", *International Journal Energy Technology and Policy*, Volume 9 No.1 p 15 – 33 2013
19. Porzolfaghar Z, Ibrahim R, Abdullah R, Adam NM and Abang AAA ,"Improving Dynamic K Knowledge Movements With a Knowledge-Based Framework During Conceptual Design of A Green Building Project", *International Journal of Knowledge Management*, Volume 9 Issue2, 2013
20. Bamde Yahaya Muhammad, Adam Nor Mariah,Jamarei bin Othman, Azmi Yahya and Zubairu UsmanBasher "Egusi melon (*citrullus lanatus*) – Malaysian new oil/energy source: production, processing and prospects" *Australian Journal of Crop Science* 7(13) p 2101- 2107 2013 (Q1)
21. YM Bande, **NM Adam** , BO Jamarei, Y Azmi, SZ Razali "Examining the physicochemical properties and engine performance of biodiesel from whole seed and extracted kernels of egusi (*citrullus lanatus*)" *Journal Science Asia*, Volume 39 p 1 – 9 2013 (Q2)
22. Abolfazl Golshan, BTHT Baharudin, **Nor Mariah bt Adam**, Mohd Khairol Anuar Mohd Ariffin
23. "Prediction of Transport Energy Demand Using Statistical Modelling" *Journal of Basic and Applied Scientific Research* Volume 3 Number 5 p 8 – 12 2013
24. Rosli Darmawan, **Nor Mariah Adam** , Nuraini Abdul Aziz, M Khairol Anuar M Ariffin "CFD Simulation of Natural Convection In Open Pool Reactor Cooling System" *Journal of Nuclear and Reactor Technologies*, Volume 10 no. 1 p 28 – 38 2013
25. **Nor Mariah Adam** , Qi Jie Kwong and Ezrin Husin "Field Performance Analysis of Shoes Used in the Takraw Games in Malaysia" *Journal of Physical Science and Application*, 3(5) p 316 – 321 2013
26. Mohammad Izadi Najafabadi, Nuraini Abdul Aziz, **Nor Mariah Adam** , Abdul Mutalib Leman Effects of Intake Temperature and Equivalence Ratio on HCCI Ignition Timing and Emissions of A 2 stroke Engine" *Journal Applied Mechanics and Materials*. Volume 315 p 498 – 502 2013
27. Tuqa Abdulrazzaq, Hussein Toguri, MKA Ariffin, SN Kazi, Norzima Zulkifli, A Badarudin, **NM Adam** "Guidelines for Implementing Total Quality Management in Higher Education Organization" Special Issue *International Journal ASSR* p 64 –66 2013 Tuqa Abdulrazzaq, Hussein Toguri, MK/

- Ariffin, SN Kazi, A Badarudin, **NM Adam** , S Masuri and E
28. Sadeghinezhad "Enhancement of Heat Transfer Nanofluid Flow in Circular Pipe With Twisted Tape Inserts: A Review" *Australian Journal of Basic and Applied Science* Volume 7(9):p 97-102 2013
  29. Tuqa Abdulrazzaq, Hussein Toquri, MKA Ariffin, SN Kazi, **NM Adam** , S Masuri "Numerical Simulation on Heat Transfer Enhancement in Channel by Triangular Ribs", *International Journal of Mechanical Science and Engineering*, Volume 7 No. 8 p 430 –434 2013
  30. Bande YM, Adam NM, Azmi Y and Jamarei O "Variation of Physical properties of Egusi Melon (*Citrullus Colocynthis Lanatus* Var. *Lanatus*) Seeds and Kernel with Moisture," *International Journal of Basic and Applied Sciences*, Volume 12 No 05 p 69 –8.2012
  31. YM Bande, **NM Adam** , Y Azmi and O Jamarei "Determination of Selected Physical Properties of Egusi Melon (*Citrullus colocynthis lanatus*) Seeds, *Journal of Basic and Applied Sciences*, Volume 8 p 257 -265. 2012

#### Conference Proceedings (30 recent Conference Proceedings)

1. Renny Eka Putri, Azmi Yahya, **Nor Mariah Adam** , "Comparing Instantaneous Yield from Combine Yield Monitor Against Crop Cut Test Estimated Yield", Paper 173 Proceeding International Conference of Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, 25-27 August 2015 Universiti Putra Malaysia Serdang
2. AJ Abdulhamed, **NM Adam** , AA Hairuddin, HK Alhasabi, "Design and Fabrication of Heat Exchanger for Portable Water Distiller System" Paper 152, Proceeding International Conference of Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, 25-27 August 2015 Universiti Putra Malaysia Serdang
3. HK Alsahabi, **NM Adam** , A Asa'ry AJAbdulhamed, "Potential of Harvesting Energy From Air Conditioning Compressor Using Seebeck Effect," Paper 151 Proceeding International Conference of Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, 25-27 August 2015 Universiti Putra Malaysia Serdang
4. Haslina Hassan, Azmi Yahya **Nor Mariah Adam** , "Workers' Energy Expenditure and Productivity on Oil Palm Field Cultivation in Malaysia" Paper 174 Proceeding International Conference of Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, 25-27 August 2015 Universiti Putra Malaysia
5. Tezara C, **NM Adam** , Juliana J, Mariani M "Characterization of Indoor Air Quality in Day Care Centers at Industrial Areas in Klang Valley Malaysia", Proceedings International Conference on Environmental and Occupational Health (ICEOH), 8-9 Apr 2014 Putrajaya
6. Kwong Qi Jie, **NM Adam** , Tezara C., V.R. Raghavan, M.F.A Malik, Indoor air quality assessment in a radiantly cooled tropical building – A Case Study Proceedings International Conference on Environmental and Occupational Health (ICEOH) 8-9 Apr. 2014, Putrajaya
7. Tezara Cionita, **Nor Mariah Adam** , Juliana Jamaludin, Mariani Mansor and Januar Parlaungan Siregar, Measurement of Indoor Air Quality Parameters in Day Care Centers Kuala Lumpur Malaysia, Proceedings International Conference on Advances in Mechanical and Manufacturing Engineering, 26-29 Nov 2014, Kuala Lumpur
8. R Serap, **NM Adam** , BT Hang Tuah and AR Ramli, Audit on Ferry Services Operating Between Labuan and Borneo Mainland Proceedings International Conference on Advances in Mechanical and Manufacturing Engineering, 26-29 Nov 2014, Kuala Lumpur
9. MM Boroojerdian, **NM Adam** and ASM Rafie, Wind Tunnel Study on the Pressure Coefficient Performance of Different Venturi-Sloped Roof Configurations for Wind Induced Natural Ventilation, Proceedings International Conference on Advances in Mechanical and Manufacturing Engineering, 26-29 Nov 2014, Kuala Lumpur
10. Qi Jie Kwong, Mohamad Afri Arsad and **Nor Mariah Adam** , Evaluation of Indoor Thermal Environment In A Radiant Cooled Floor Office Building in Malaysia, Proceedings International Conference on Advances in Mechanical and Manufacturing Engineering, 26-29 Nov 2014, Kuala Lumpur
11. A Zainuddin, **NM Adam** , IH Rusli and QJ Kwong, Simulation of Thermal Comfort Conditions in An Air Conditioned Cafeteria in the Tropics, Proceedings International Conference on Advances in Mechanical and Manufacturing Engineering, 26-29 Nov 2014, Kuala Lumpur
12. Ahmet Ozsoy, Sabahatin Demirel and **NM Adam** , An Experimental Study in Double Glazed Flat Plate Solar Water Heating System in Turkey, Proceedings International Conference on Advances in Mechanical and Manufacturing Engineering, 26-29 Nov 2014, Kuala Lumpur

13. Qi Jie Kwong, Nor Maruiah Adam, BB Sahari, Energy Performance Evaluation of a Radiant Cooling System in a Tropical Green Building. Proceedings CLIMA Congress, 16-19 Jun 2014 Prague Czech Republic
14. Tezara Cionita, **Nor Mariah Adam** , Juliana Jamaludin, Mariani Mansor and Januar Parlaungan Siregar, Study on Measurement of Particulate Matter (PM<sub>10</sub>) Level on Children Environment, Proceedings 5<sup>th</sup> International Conference on Numerical Optimization and Operations Research, 26-28 June 2014, Aceh Indonesia
15. Ahmad Ibrahim, **Nor Mariah Adam** and Wardah Fatimah Mohammad Yusuff, Application of Solar Induced Ventilation Prototype in a Single Story Building in a Hot Humid Climate, Proceedings Affordable Quality Housing 13-15 Mar 2013, Putrajaya
16. MW Al-Gailani, **NM Adam** and Azizah Salim, Passive Strategies to Cool Terraced House in Serdang, Proceedings Affordable Quality Housing 13-15 Mar 2013, Putrajaya
17. **Nor Mariah Adam** , Promoting Safety and Health in Green Economy, Proceeding Seminar Occupational Safety and Health, 2-3 Apr 2013 Penang
18. QJ Kwong, **NM Adam** , SH Goh and VR Raghavan, Miscellaneous Electric Loads in Tropical Buildings – An Opportunity for Energy Conservation Improvement, Proceeding 10<sup>th</sup> Eco- Energy and Materials Science and Engineering Symposium, 5-8 Dec 2012 Ubon Ratchathani, Thailand
19. Bande YM and **NM Adam** , Physical Properties of Seed: Use and Determination, Proceedings Seminar Engineering and Science Research Methods, 10 Jan 2012, UPM
20. **Nor Mariah Adam** , Promoting Safety and Health in Green Economy, Proceeding COSH 11-12 Jul 2012 Subang Jaya
21. Seyed Amir Hossein Khosholat, Nuraini Abdul Aziz, Napsiah Ismail and **Nor Mariah Adam** , Repositioning of Electric Distribution Substations Using Fuzzy Decision Making, Proceeding Second International Conference on Advances in Energy Engineering, 2011
22. **Nor Mariah Adam** , Indoor Air Quality, NIOSH 21 Jun 2011 Bangi
23. **Nor Mariah Adam** , Emergency Preparedness: Academic Approach, Seminar Emergency Management System, 31 May 2011, Penang
24. **NM Adam** , "Women Researchers in Malaysia Proceedings International Forum for Collaboration of Women Scientist in Asia 20 December 2008, p 28-33 Mie University, Japan
25. R Daghighi, **NM Adam** , K Sopian, A Zaharim and BB Sahari, A Thermal Comfort Levels Investigation of a Naturally and Air-Conditioned Office, Proceedings 8<sup>th</sup> WSEAS International Conference on Simulation, Modeling and Optimization 23-25 Sept p189-194 Santander, Cantabria, Spain
26. Bashria AA Yousef, Adam NM and Sopian K, Paper ID 545-214, Analysis of Single and Double Passes With and Without Porous Media for V-Groove Solar Collector Proceeding 9<sup>th</sup> WSEAS International Conference on Mathematical and Computational Methods in Science and Engineering, 5-7 Nov 2007 Trinidad and Tobago
27. Thameer Ahmad Mohammad, Megat Johari Megat Mohd Noor, Abdul Halim Ghazali and **Nor Mariah Adam** Rainwater Harvesting as a Supplementary Sources for Water Supply in Urban Areas", Proceedings Second International Engineering Convention 2007, Riyadh, Saudi Arabia
28. Leman AM, A Hussain, MA Halmi, Ismail Husaini, AR Omar, **NM Adam** and MZ Yusof Monitoring of Indoor Air Quality for Improvement of Safety and Health Factor Towards Sustainable Work Environment in Industry", Proceedings International Symposium and Exhibition on Sustainable Energy and Environment, 3-6 Dec 2006 Kuala Lumpur
29. Abdul Motalib Leman, Adnan Hussain, Mohammad Zainal Md Yusof, Ismail Husaini, **Nor Mariah Adam** and Abdul Rahman Omar, Simulation of Indoor Air Quality at Basement Car Parks Proceedings Quantitative In Research Conference, 6-8 Sept 2006 Jakarta
30. **NM Adam** , AM Leman and BAA Yousef, Performance and Cost Analysis of Double Flow Solar Air Heaters Proceedings Sixth IASTED International Conference on European Power and Energy System, 26-28 June 2006, pp 521-Rhodes Greece
31. **NM Adam** , AM Leman, MZM Yusof and A Husain, Dust Levels at Selected Rice Mills in Malaysia," Proceedings Healthy Buildings 2006: Healthy Environment for People, 4 – 8 Jun 2006, A242, Volume II, pp 491-494 Lisboa Portuga
32. **Nor Mariah Adam** , "Indoor Air Quality of Malaysian Buildings", Proceedings International Real Estate Research Symposium (IRERS), PWTC 11-13 April 2006 Kuala Lumpur
33. Adam NM, TH Ho and AM Leman, "Indoor Air Quality of Longhouses in Sarawak" Proceedings 10<sup>th</sup> Indoor Air Quality and Climate Conference, 5-9 Sept 2005 pp3176-3179 Beijing
34. Leman AM, **NM Adam** , MZM Yusof and A Husain, Indoor Air Quality of Public Toilets in Malacca, Proceedings 10<sup>th</sup> Indoor Air Quality and Climate Conference, 5-9 Sept 2005 pp 62-65 Beijing
35. Suditama, MHM Ahmad, S Sulaiman and **NM Adam** , "Experimental and Numerical Analysis



Heat Transfer Characteristics of Tube Array During Melting in the Thermal Storage Material Proceedings Multiphase Flow, Heat Mass Transfer and Energy Conversion, July 3-6, 2005, Xi'an, China

36. Daud M, MZ Bardaie, **NM Adam** and H Omar, "An internet-based Ecotourism-site Rating System: The Challenge in Adopting the System to Various Ecotourism-sites that differs widely in their Attractions and Activities" Proceedings IPSI2005, May 2005 France

#### Books (If any)

**Nor Mariah Adam** Editor, Engineering Research Methods, ISBN 978-1-4716-1007-3 9000 Lulu Press USA 2012

Proceedings AREL Seminar 2008, University Putra Malaysia, 4 December 2008, ISBN 978-983-42758-3-9, **Nor Mariah Adam** (Chief Editor) and Roslina Abdul Rashid

#### Chapter in Books (If any)

#### Research Grants

| No | Project Title   | Amount (RM) | Year      | Source of Fund |
|----|---|-------------|-----------|----------------|
| 1  | Design of Heat Exchanger for portable water distiller using Computational Fluid Dynamics                                      | 20,000      | 2015-2017 | IPS            |
| 2  | Characterization and Effectiveness of Sokar Thermal System Integration in Building Shading Facade                             | 15,000      | 2014-2015 | IPS            |
| 3. | Development and Fabrication of Solar Powered Water Distiller  | 10,000      | 2013-2014 | RUGS           |
| 4  | Assessment of thermal comfort in fully enclosed laboratories in tropical buildings  | 11,500      | 2012-2014 | RUGS           |
| 5  | Design and development of Sepak Takraw shoes for stability and comfort  | 74,000      | 2009-2013 | RUGS           |
| 6  | Impact analysis of Thailand and Malaysian Takraw balls  | 51.000      |           | KPKT           |
| 7. | Determination of carbon monoxide level in passenger cars in Klang Valley for application of CO indicator in car control panel | 29,200      | 2009-2011 | RUGS           |
|    |   |             | 2007-2009 |                |

#### Awards/Recognition (Current)

| No | Name of awards | Title  | Award Authority  | Award Type    | Year |
|----|----------------|--|--|---------------|------|
| 1. | Gold Medal     | Development of Solar Induced Ventilation Strategy in Hot Humid Climate | Korea Invention Promotion Association, Seoul International Invention Fair 2012 | International | 2012 |

|    |   |   |   |               |      |
|----|---|---|---|---------------|------|
| 2. | Bronze Medal                            | Development of Potential Solar Induced Ventilation Strategy in Hot Humid Climate                        | ITEX  | National      | 2012 |
| 3  | Silver Medal                            | Development of conductivity Meter for Nano-fluids,  | UPM   |               | 2010 |
| 4  | Excellent Service                       | Category Head Laboratory  | UPM level   | National;     | 2010 |
| 5  | Women Researcher Bronze Medal           | Malaysian Rep Active Noise Control for Buildings,   | Mie University Japan  | International | 2008 |
| 6  | Bronze Medal                            | Design and Development of Fluidized Bed Gasifier Using Oil Palm Biomass for Energy Generation           | PRPI UPM  | UPM           | 2007 |
| 7  | Bronze Medal                            | Internet based Expert System for Solar System Socio-technical Disaster Model of Malaysia                | PRPI  | UPM           | 2006 |
| 8  | Silver Medal                            | The Adoption of Eco-net: The Internet based Malaysian Ecotourism Network and-Site Rating                | PRPI  | UPM           | 2005 |
| 9  | Bronze Medal                            | Expert System Development of Gasification System Fuelled with Oil Palm biers and Shells"                | PRPI  | UPM           | 2005 |
| 10 | Best MPOB Paper for 2005                | Simulations of Onset of Convection in a Non -Newtonian Liquid Induced by Unsteady State Heat conduction | American Journal of Applied Sciences (Special Issue): 72-75, 2005 | International | 2006 |
| 11 | Best Thesis National Science Fellowship |   |   | National      | 2001 |

### Professional Services/Consultation

| No | Year      | Title  | Authority           | Amount    |
|----|-----------|--|---------------------|-----------|
| .1 | 2015      | Fire Extinguisher Competency Test                | UPM/BOMBA/MFPA      | RM140,000 |
| 2  | 2013/2014 | Fire Extinguisher Competency Test                | UPM/Bomba/MFPA      | RM140,000 |
| 3. | 2012      | Fire Extinguisher Competency Test                | UPM/Bomba/MFPA      | RM666,000 |
| .4 | 2012      | Hazard Analysis Sunway Integrated Facility Plant | Sunway Construction | RM15,000  |

### Student Supervision

#### PhD (Main Supervisor)

| No. | Name  | Title   | Status              |
|-----|---|---|---------------------|
| 1.  | Bashria Abd-Rub Alrasoul<br>Abd Allah Yousef<br>(GS11633) | Development of a Mathematical Model to Predict Thermal Performance and Cost Effectiveness of Solar Air Heaters t                          | Graduated 2007      |
| 2.  | Hamidreza Ghezavati<br>(GS16996)                          | Suitable Location of CO Detector in Car Cabins  | Graduated 2012      |
| 3.  | Tezara Cionita<br>(GS15850)                               | Evaluation of Indoor Air Quality in Selected Daycare Centers in Klang Valley Using Subjective and Objective Measurements                  | Graduated 2013      |
| 4   | Yahaya Muhamad Bande<br>(GS30833)                         | Malaysian Grown Egusi ( <i>Citrullus Lanatus</i> ) Crop as Potential Feed Stock for Bio Energy  | Graduated 2013      |
| 5.  | Kwong Qi Jie (GS32187)                                    | Indoor Environmental Quality and Energy Cost Slab Saving Prediction Model for Radiantly Cooled Tropical Buildings                         | Graduated 2014      |
| 6   | Raduan bin Serap<br>(GS27888)                             | Development of Model for Passenger Safety Onboard Ferry Operating Between Labuan and Borneo Mainland                                      | Ongoing             |
| 7   | Rosli bin Dermawan<br>(GS30479)                           | Study on Enhancement of Research Nuclear Reactor Cooling Pool System for Higher Flus Generation   | Graduated 2015      |
| 8   | Ali Wahhad (GS23354)                                      | Design of Optimum Window Using CFD  | Submitted Sept 2015 |
| 9   | Lim Chong Lye<br>(GS32454)                                | Design of Insulation System for Liquid Nitrogen Piping  | Ongoing             |
| 10  | Mohammed W. Muhieldeen                                    | Development of Model to Predict Room Temperature Based on Geometry  | Submitted Sept 2015 |
| 11  | Al-Gailani (GS33402)                                      | Flow Characteristics of Nitrogen in Distribution Pipes Characterization and Effectiveness of Solar Thermal System Integration in Building | Ongoing             |
| 12  | Moey Lip Kean<br>(GS34093)                                | Shading Façade  | Ongoing             |

## Student Supervision

### PhD (Main Supervisor)

| No.                 | Name                             | Title   | Status  |
|---------------------|----------------------------------|---|---------|
| 13                  | Ng Khai Mun (GS35666)            | Preventive Scheduling Model for Manufacturing Line                                      | Ongoing |
| 14                  | Nurhaiza binti Shahrir (GS36901) | Design and Fabrication of Three Fuel Mixer for Truck Engine                             | Ongoing |
| 15                  | Hussein Adel Mahmood (GS39966)   | Design and Fabrication of Solar Powered System to Reduce Crushing Force of Quarry Rocks | Ongoing |
| 16                  | Yeo An Thai (GS43203)            | Experimental Analysis of Plasma Energy for Turbine Application                          | Ongoing |
| Ahmad MRN Alrashidi |                                  |   |         |

### MS with thesis (Main Supervisor)

| No. | Name                                    | Title  | Status         |
|-----|---|--|----------------|
| 1   | Ali Driver (GS33237);                   | Development and Fabrication of Solar Powered Water Distiller   | Graduated 2015 |
| 2   | Altayeeb Abdullah (GS29862)             | Heat Transfer and - Flow Characteristics of Micro-channel Heat Sinks With Different Shapes                           | Graduated 2013 |
| 3   | Alina Aminuddin (GS25077)               | Thermal Comfort Measurements at UPM Health Center  | Graduated 2013 |
| 4.  | Dan Jun Xian (GS25428)                  | Design of Suitable Reflector for UPM Solar Bowl  | Graduated 2012 |
| 5   | Ijhar Hidayat Rusli (GS20151_)          | Effects of Solar Irradiance Towards the Predicted Mean Vote in the Perimeter Zone                                    | Graduated 2012 |
| 6   | Asnawi (GS22335)                        | West Facing Lecture Room With Unprotected Glazed Window  | Graduated 2011 |
| 7   | Mohammadmahdi Ghiji (GS22648)           | Effect of Hydrogen Enrichment on the Engine Performance on CNG engine Performance and Emissions                      | Graduated 2011 |
| 8   | Mohammad W Muhieddeen (GS20969)         | Computational Dynamic Study in Knock Onset on Diesel Fuel Engine   | Graduated 2011 |
| 9   | Ng Khai Mun (GS25851)                   | Polyethylene Single- Bubble Insulation Capability to Reduce Cooling Load of A Lecture Hall                           | Graduated 2011 |
| 10  | Aydin Khaybani (GS19919)                | Theoretical and Empirical Studies of the Geometrical Characteristics of a Fixed Mirror                               | Graduated 2011 |
| 11  | Amir Pakaravan (GS18135)                | Distributed Focus Solar Concentrator Located in Serdang  | Graduated 2010 |
| 12  | Giwa Solomon Olanrewaju (GS19097)       | Design of Shell Condenser for Solar Powered Water Distiller  | Graduated 2009 |
| 13  | Kwong Qie Ji (GS20404)                  | Computational Study on Turbulent Flow Around A model of Wind Turbine Rotor   | Graduated 2009 |
| 14  | Abolfazl Sousanabadi Farahani (GS18242) | Synthesis and Characterization of Egusi Melon Methyl Ester as Diesel Fuel Substitute                                 | Graduated 2009 |
| 15  | Seyed Sharafaldin Hosseini (GS18815)    | Environmental Comfort Parameters and Energy Efficiency Potentials of Closed Transitional Space in Tropical Buildings | Graduated 2009 |
|     |   | Design of Passive Wind Ventilator Using Computational Dynamics Software  | Graduated 2009 |
|     |   | Development of Thermal Conductivity Meter for Nano-fluid   | Graduated 2009 |
|     |   | Active Noise Control for of Air-Conditioning   | Graduated      |



| No. | Name   | Title   | Status            |
|-----|--|---|-------------------|
| 16  | Aloysius D'cruz a/<br>Joachim Decruz                 | Systems   | 2009              |
| 17  | GS14452)<br>Ali Mohamed Wahhd<br>(GS14979)           | Effects of Selected Shading Devices on Office<br>Room Temperature Distribution  | Graduated<br>2008 |
| 18  | Roonak Daghigh<br>(GS 16824)                         | Influence of Air Exchange Effectiveness on<br>Thermal Comfort in Malaysia   | Graduated<br>2008 |
| 19  | Azali Awaludin<br>(GS13754)                          | Design and Development of Oil Palm Biomass<br>Fluidized Bed Gasifier  | Graduated<br>2008 |
| 20  | Cheong Yoon Kwan<br>(12690)                          | Numerical Simulation of Nitrous Oxide and<br>Carbon Monoxide Abatement in the Catalytic<br>Converter of a Compressed Natural Gas Engine | Graduated<br>2007 |
| 21  |  | Development of an Internet-Based System to<br>Measure Thermal Comfort in Indoor<br>Environments   | Graduated<br>2006 |
| 22  | Sivasanker Sambasivam<br>(GS10130)                   | Study of the Optimal Position of Ventilating Fan<br>in Typical Kitchen Area   | Graduated<br>2005 |
| 23  | Tezara Cionita<br>(GS09416)                          | Optimization and Simulation of A Thermo-siphon<br>Solar Water Heater for Malaysia using TRNSYS  | Graduated<br>2005 |
| 24  | Seyed Hamidreza Zahedi<br>(GS12662)                  | Experimental Analysis on the Optimum<br>Dimensions of Wind Catcher  | Submitted<br>2015 |
|     | Mohamadmahdi<br>Boroojerdian (GS33209)               | Design and Fabrication of Heat Exchanger for<br>Solar Powered Water Distiller   | Ongoing           |
| 25  |  | Potential Energy Harvesting front Air<br>Conditioning Compressor Using Peltier Effect   | Ongoing           |
| 26  | Ali Jaber Abdulhamed<br>(GS41633)                    | Design of Heat Exchanger for Portable Solar<br>Powered Water Distiller Using CFD  |                   |
|     | Hanaa Kadhim Kareem<br>Alsabahi (GS41634)            | Determination of Air Gap Size for Optimum<br>Refrigerator Efficiency Using CFD  | Ongoing           |
| 27  | Tengku Muhammad<br>Fahmi Tengku Ibrahim<br>(GS41979) | Numerical Analysis of Nanofluid Flow Around<br>Bends  | Ongoing           |
| 28  |  |   | Ongoing           |
|     | Abdullah Mohamed<br>Abdulwahab (GS42119)             |   |                   |
| 30  | Hadi Mahdizadeh<br>(GS42284)                         |   |                   |

#### MS without Thesis (Main Supervisor)

| No. | Name  | Title   | Status            |
|-----|---|---|-------------------|
| 1   | Muhamad Akhbar Alhas<br>Abdul Latif (GS36555) | Evaluation of Fire Safety at Engineering Faculty<br>UPM                   | Graduated<br>2014 |
| 2.  | Ali Sodooteh (GS36569)                        | Total Quality Energy Management<br>Alternative Energy and Management      | Graduated<br>2015 |
| 3   | Amir Faisal bin Muhamad<br>(GS35336)          | Management of Hydrogen Supplied Gas Incident<br>at Sewage Treatment Plant | Graduated<br>2015 |
|     |   |   | Graduated         |

| No. | Name                                | Title   | Status            |
|-----|-------------------------------------|---|-------------------|
| 4   | Mohd Tarmizi Mat Tasim<br>(GS35506) | Strategic Energy Management and MS<br>50001 Compliance  | 2015              |
| 5   | Arzmi Abdullah<br>(GS37105)         | Evaluation of Evacuation Procedure at Petronas<br>Twin Towers   | Graduated<br>2015 |
| 6   | Saeed Jaber Abed Ali<br>(GS39761)   | Building Time Schedules for Manufacturing<br>Textile by Estimating Production Rates Using<br>Simulation for Iraq Case Study | Graduated<br>2015 |
| 7   | Yeap Nai Yik (GS39297)              | Application of Project Management Tool in<br>Building Construction  | Graduated<br>2015 |
| 8   | Akpoka Endurance<br>(GS34997)       | Minimizing the Environmental Impact of Ready-<br>Mixed Concrete in Malaysia   | Graduated<br>2015 |

