# *Curriculum Vitae*

## *Professor Dr. Hanim binti Salleh, CEng (UK), MIMechE*


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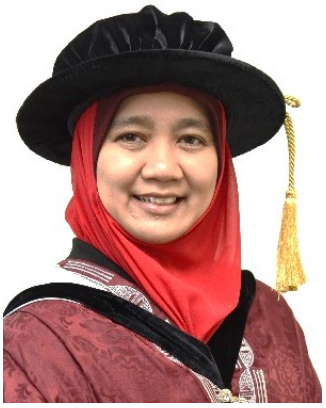
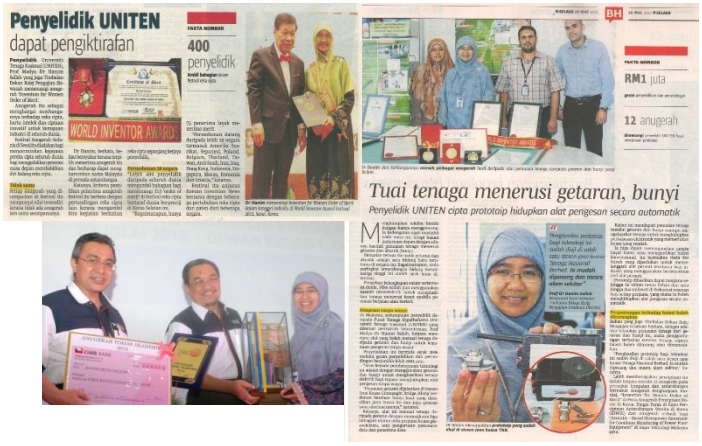


# BACKGROUND

21 years of service. Experts in Vibration control, energy harvesting, instrumentation and product design.

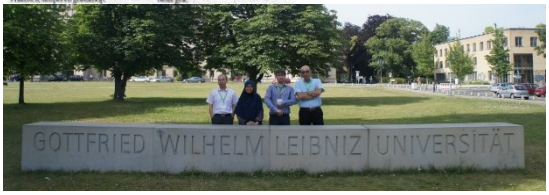
# AWARDS & RECOGNITION

"Invention for Women Order of Merit", World Inventor Award, Seoul 2012
"The Best Award", MTE 2012
"Woman Inventor of the Year", MTE 2011
"Tokoh akademik" UNITEN 2012




JUDGED 148 inventions at international expos, Won 26 international innovation awards, Won 3 service awards. Invited speaker at public forum "Bicara Inspirasi".

# INTERNATIONAL


# RESEARCH & PUBLICATION

66 Publications, 328 citations, 8 H-Index, 8 Patent Pending, RM2 Million Grants & Consultancy

# TEACHING & SUPERVISION

More Than 4000 Hrs, 2 Million Direct Revenue, 9 Subjects, 150 Undergraduates, 15 Postgraduates

# LEADERSHIP

Senate member, Director, Deputy deans, Head of Department
Founding & Council member Society of Vibration and Acoustic Malaysia,
Deputy President, Malaysian Higher Education Quality Assurance Network (MyQAN),
Chairperson, Self-Accrediting Universities MyQAN Subnetwork.

# UNIVERSITY SERVICES

Various university level committees.

# COMMUNITY

Invited Speakers. Advocates in shariah, women & technology, More than 3000 hours of voluntary service.

## Position

| *Year* | *Position* | *Place of Work* |
|---|---|---|
| 2016-present | Director | Quality Advancement Centre, UNITEN |
| 2015-present | Professor | Department of Mechanical Engineering, College of Engineering, UNITEN |
| 2015-2016 | Head of Unit | Strategic Planning and Quality, UNITEN |
| 2013-present | Research Associates | Institute of Energy and Policy Research (IEPRe) & Institute for Sustainable Energy (ISE), UNITEN |
| 2013-2015 | Deputy Dean | College of Foundation and General Studies UNITEN |
| 2012-2013 | Deputy Dean | College of Graduate Studies, UNITEN |
| 2011-2012 | Head of Department | College of Engineering, UNITEN |
| 2009-2015 | Associate Professor | College of Engineering, UNITEN |
| 2007 – 2010 | Senior Lecturer | College of Engineering, UNITEN |
| 1999 - 2007 | Lecturer | College of Engineering, UNITEN |
| 4 May 1998 – 1999 | Assistant Lecturer | College of Engineering, UNITEN |

## Professional

*Since 2019* **Akademi Profesor Malaysia**
Member, MAPM0075

*Since 2015* **Malaysia Board of Technologists (MBOT)**
Graduate Technologist (Green Technology), GT19050199

*Since 2008* **Chartered Engineer, Engineering Council , United Kingdom**
Registered member, 573501

*Since 2008* **Institute of Mechanical Engineer (UK)**
Member, 90094080

*Since 2009* **Society of Vibration and Acoustics Malaysia (SVAM)**
Founding member & committee

*1999* **Board of Engineers Malaysia**
Registered member GE31188A

## Education

| | |
|---|---|
| *Jan 2002 – Oct 2005* | **University of Southampton**<br>Doctor of Philosophy, Sound and Vibration Studies,<br>Southampton, United Kingdom |
| *Jan 1995 – Nov 1997* | **Universiti Putra Malaysia**<br>M.Sc., Agricultural Process Engineering<br>Putrajaya, Malaysia |
| *Sep 1992 – Apr 1994* | **University of Georgia**<br>B.Sc. Agric..Eng. (Cum Laude), Agricultural Engineering<br>Athens, United States |

## Skills & Activities

| | |
|---|---|
| *Skills* | Energy Harvesting technology, Piezoelectricity, Electromagnetics, Triboelectricity, Smart structure, Smart Materials, Structural Vibration, Vibration Analysis, Dynamics and control, LabVIEW, Modal Analysis, Product realization and design. |
| *Languages* | English, Malay |

## Expert Panel or Assessor

**National**

1. MQA Expert panel for Development of QA Certified Module. 2019.
2. MQA panel programme assessor, Mechanical and Agricultural Engineering – April 2015-April 2018
3. SETARA MOHE national rating for universities and university colleges, Researcher and Institution Lead Assessor, 2017.
4. MyQUEST MOHE national rating for private colleges, Institution Assessor, 2017, 2018
5. Technology Park – TNB technology assessment panel - 2008

**International Exhibition**

1. International Invention, Innovation & Technology Exhibition 2019, MINDS, Judge – 14 inventions
2. International Invention, Innovation & Technology Exhibition 2018, MINDS, Judge – 16 inventions
3. International Invention, Innovation & Technology Exhibition 2018, MINDS, Judge – 12 inventions
4. International Invention, Innovation & Technology Exhibition 2017, MINDS, Judge – 16 inventions
5. International Invention, Innovation & Technology Exhibition 2016, MINDS, Judge – 16 inventions
6. International Invention, Innovation & Technology Exhibition 2015, MINDS, Judge – 18 inventions
7. International Invention, Innovation & Technology Exhibition 2014, MINDS, Judge – 18 inventions
8. International Invention, Innovation & Technology Exhibition 2013, MINDS, Judge – 22 Taiwanese Inventions
9. International Invention, Innovation & Technology Exhibition 2012 , MINDS, Judge – 16 Inventions

**Examiner/ Reviewer**

1. Thesis Internal Examiner – 2 Master., 1 PhD, more than 150 undergraduates.
2. Thesis External Examiner – 2 Master, 4 PhD
3. ICSSA2015 (2015 International Conference on Smart Sensors and Application). Review1. 1570083417. Dadin Mahmudin, Pamungkas Daud, Nasrullah Armi, Goib Wiranto, Yusuf Nur Wijayanto, Topik Teguh Estu. Environmental Liquid Waste Sensors Using Polymer Multi-Coupled Ring Resonators.
4. ISTT2014. IEEE. Review for #1569974751: Correlated Topology Control Algorithm for Survival Network in MANETs.
5. Reviewer for Journal of Nanoengineering and Nanosystems. April.2014.JNN-13-0092
6. International Conference on Energy and Environment, paper reviewer, 2006
7. International Conference on IT and Multimedia , paper reviewer. Nov 2008
8. International seminar on advances in renewable energy, paper reviewer
9. The 8th International Power and Energy Conference IPEC , IEEE 2010. Paper reviewer – 2 papers
10. Reviewer for The 10th International Power and Energy Conference , IPEC2012, IEEE Singapore, - 4 papers
11. Reviewer for 2nd International conference on recent advances in Automotive Engineering and Mobility Research. Nov 2013. P003.

## Publication Highlights

1. Chilabi, H.J., Salleh, H., Supeni, E.E., As'arry, A.B., Md Rezali, K.A., Atrah, A.B., *Harvesting energy from planetary gear using piezoelectric material*, Energies, 13 (1), art. no. 223, . doi: 10.3390/en13010223. 2020.
2. Azwan, M.K., Salleh, H., *Development of hybrid contact mode triboelectric and electromagnetic energy harvester*, International Journal of Recent Technology and Engineering, 8 (4), pp. 1652-1656.doi:10.35940/ijrte.D5101.118419. 2019.
3. Azwan, M.K., Salleh, H., Rao, S., *Performance of a Triple Cantilever Hybrid Energy Harvester (TCHEH) Based on the Triboelectric Surface Modification*, International Journal of Engineering and Advanced Technology, 9 (1), pp. 3465-3469. DOI: 10.35940/ijeat.A2662.109119. 2019.
4. A. B. Atrah, M.S. Ab-Rahman, H.Salleh, M.Z. Nuawi, M. J. M. Nor and N. Jamaludin, *Karman Vortex Creation Using Cylinder for Flutter Energy Harvester Device*, Micromachines 2017, 8, 227; doi:10.3390/mi8070227.
5. M.S.M. Resali, H Salleh , *Development of Multiple-Input Power Management Circuit for Piezoelectric Harvester*, Journal of Mechanical Engineering Vol SI 2 (2), 215-230, 2017.
6. M.S.M. Resali, H Salleh , *Effect of Rubber Compound Treatment and PTFE Extension Beam on Piezoelectric Energy Harvester Power Density*, Journal of Mechanical Engineering, Vol SI 2 (2), 199-214, 2017.
7. M. F. Jaafar, H. Salleh. *Simulation of SDOF Piezoelectric Energy Harvester using MATLAB*, International Journal of Engineering Trends and Technology (IJETT), V39(6),338-342 September 2016. ISSN:2231-5381
8. M. Salim, H. Salleh, E. W. K..Loh, M. Khir, D. Salim: *New simulation approach for tuneable trapezoidal and rectangular piezoelectric bimorph energy harvesters*. Microsystem Technologies 2016.
9. MSM Resali, H Salleh: *Comparison of an Electromagnetic Energy Harvester Performance using Wound Coil Wire and PCB Coil*. IOP Conference Series Earth and Environmental Science 2016; 32(1).

10. A.Sh. Kherbeet , Hanim Salleh, B.H. Salman, Mohammed Salim: *Vibration-based piezoelectric micropower generator for power plant wireless monitoring application*. Sustainable Energy Technologies and Assessments ; (11) 2015.
11. Hanim Salleh, Mun Heng Lam, Linasuriani Muhamad, Mohd Firdaus bin Jaafar: *Structural Modification Strategies to Improve Piezoelectric Energy Harvester Performance*. Applied Mechanics and Materials , 752-753. 2015.
12. Mun Heng Lam, Hanim Salleh: *PZT Piezoelectric Energy Harvester Enhancement Using Slotted Aluminium Beam*. Advanced Materials Research; vol. 1051. 2014.
13. Tony Ow Koon Seong, Hanim Salleh, Anis Nurashikin: *Optimization of Resonator Design for Vibration-Based Electromagnetic Energy Harvester*. Applied Mechanics and Materials 471, 355-360. 471. 2014.
14. Mohammed Dhia Salim, Hanim Salleh, Dhia Shaker Salim: *A low frequency tunable hybrid generator*. Microsystem Technologies 19(11). 2013.
15. A Marwan, Nagi Farrukh, KSM Sahari, S Hanim: *Real-time on line tuning of fuzzy controller for two-link rigid–flexible robot manipulators*. Transactions of the Institute of Measurement and Control 35(6). 2013.
16. Aliza Aini Md Ralib, Anis Nurashikin Nordin, Hanim Salleh, Raihan Othman: *Fabrication of aluminium doped zinc oxide piezoelectric thin film on a silicon substrate for piezoelectric MEMS energy harvesters*. Microsystem Technologies 11/2012; 18(11). 2012.
17. Mohammed Dhia Salim, Hanim Salleh, Dhia Shaker Mohammed Salim: *Simulation and experimental investigation of a wide band PZ MEMS harvester at low frequencies*. Microsystem Technologies 06/2012; 18(6). DOI:10.1007/s00542-012-1453-9
18. Marwan, Farrukh Nagi, K.S.M. Sahari, S. Hanim: *Robust Fuzzy MIMO Bang-Bang Controller for two Links Robot Manipulators*.

A. Marwan, Farrukh Nagi, KSM Sahari, S. Hanim, I. Fadi: *On-line adaptive fuzzy switching controller for SCARA robot*. WSEAS Transactions on Systems and Control 11/2011; 6(11).

19. H. A. Mohammed, H. Salleh, M. Z. Yusoff: *Thermal product estimation method for aerodynamics experiments*. Journal of Engineering Physics and Thermophysics 07/2011; 84(4). DOI:10.1007/s10891-011-0542-4
20. H. A. Mohammed, H. Salleh, M. Z. Yusoff: *Dynamic Calibration and Performance of Reliable and Fast-Response Coaxial Temperature Probes in a Shock Tube Facility*. Experimental Heat Transfer; 24(2-2). 2011.
21. Aliza Aini Md Ralib, Anis Nurashikin Nordin, Raihan Othman, Hanim Salleh: *Design, simulation and fabrication of piezoelectric micro generators for aero acoustic applications*. Microsystem Technologies 04/2011; 17(4). 2011.
22. H. A. Mohammed, H. Salleh, M. Z. Yusoff: *The effect of scratch technique on the thermal-product value of temperature sensors*. Thermophysics and Aeromechanics 18(1). 2011.
23. H. A. Mohammed, H. Salleh, M. Z. Yusoff: *Determination of the Effusivity of Different Scratched Coaxial Temperature Sensors Under Hypersonic Flow*. International Journal of Thermophysics , 31(11). 2010.
24. Aliza Aini Md Ralib, Anis Nurashikin Nordin, Hanim Salleh: *A comparative study on MEMS piezoelectric microgenerators*. Microsystem Technologies 10/2010; 16(10). DOI:10.1007/s00542-010-1086-9
25. H. A. Mohammed, H. Salleh, M. Z. Yusoff, Antonio Campo: *Thermal Product of Type-E Fast Response Temperature Sensors*. Journal of Thermal Science 08/2010; 19(4).

26. Hussein A Mohammed, Hanim Salleh, Mohd Zamri Yusoff: *Thermal Product of Fast Response Temperature Sensors for Transient Heat Transfer Applications with Numerically Determined Surface Heat Flux History*. The Open Thermodynamics Journal 4(2). 2010.
27. H. A. Mohammed, H. Salleh, M. Z. Yusoff: *Fast response surface temperature sensor for hypersonic vehicles1*. Instruments and Experimental Techniques , 53(1). 2010.
28. Hussein Mohammed, Hanim Salleh, Mohd Zamri Yusoff: *Design and fabrication of coaxial surface junction thermocouples for transient heat transfer measurements*. International Communications in Heat and Mass Transfer 08/2008; 35(7-35).
29. H. Salleh, M.J. Brennan: *Control of flexural waves on a beam using a vibration neutraliser: Effects of different attachment configurations*. Journal of Sound and Vibration , 303(3). 2007.
30. Hussein Mohammed, Hanim Salleh, Mohd Zamri Yusoff: *The transient response for different types of erodable surface thermocouples using finite element analysis*. Thermal Science 01/2007; 11(4). 2007.

## Other Publications

1. S Rao, H Salleh, MS Iskandar, Performance comparison of hybrid and non-hybrid contact mode triboelectric energy harvester, AIP Conference Proceedings, 2030, 020034 (2018); https://doi.org/10.1063/1.5066675
2. A. R. M. Khairudin and H. Salleh, Multisource energy harvesting circuit for low power application, AIP Conference Proceedings 2030, 020042 (2018); https://doi.org/10.1063/1.5066683
3. Linasuriani Muhamad and H. Salleh, "Enhancement of power density for PZT Energy Harvester", Paper ID: 135, Proceedings of 2nd ISST Langkawi.IEEE.2014.
4. Ahmed B. Atrah and Hanim Salleh, Simulation Of Acoustic Energy Harvester Using Helmholtz Resonator With Piezoelectric Backplate, Proceedings Of International Congress Of Sound And Vibration, ICSV20, Bangkok, 7-11 July 2013.
5. A.A. Md Ralib, A.N. Nordin, and H. Salleh "Simulation of MEMS Piezoelectric Energy Harvester for Wireless Condition Monitoring, Symposium of Design, Test and Packaging of MEMS/MOEMS (DTIP) " Feb 2010. France.
6. Md Ralib, A.A., Nordin, A.N., Salleh, H. Theoretical modeling and simulation of MEMS piezoelectric energy harvester. (2010) International Conference on Computer and Communication Engineering, ICCCE'10.
7. Mohammed, H., Salleh, H., Yusoff, M.Z. Calibration of rugged, renewable and fast response temperature probes in a hypersonic flow facility. (2010) ASME International Mechanical Engineering Congress and Exposition, Proceedings, 9 (PART B), pp. 1049-1060.
8. Salleh, H., Rashid, N.M., Wahib, K.A. Harvesting vibration from rotating machinery as a power source for a wireless sensor node. (2010) ASME International Mechanical Engineering Congress and Exposition, Proceedings, 15, pp. 497-504.
9. Shaker, M.D., Salleh, H. Approaches and developments in MEMS power harvesting generators (2010) Proceedings of the IEEE/CPMT International Electronics Manufacturing Technology (IEMT) Symposium, art. no. 5746698.
10. M S M. Resali and H. Salleh. "Comparison of Energy Harvesting Power Management Techniques and Application", Proceedings of the IEEE/CPMT International Electronics Manufacturing Technology (IEMT) Symposium
11. M S M. Resali and H. Salleh. "Simulation of an Energy Harvesting Circuit for Low Power Application", 2010. 9th International Power and Energy Conference, IPEC 2010, IEEE. art. no. 5697093, pp. 898-902.
12. *M S M. Resali and H. Salleh. "Power Management Energy Harvesting Circuit for Wireless Sensor Node"*, Student Conf. On Renewable Energy, 2010, Malaysia.

13. M S M. Resali and H. Salleh. "Energy Harvester Power Management for Wireless Industrial Application", IEEE Conf. Open System, 2010, Malaysia.
14. Shebeeb, A., Salleh, H. Effect of cantilever shape on the power output of a piezoelectric bimorph generator, (2010) IEEE International Conference on Semiconductor Electronics, Proceedings, ICSE, art. no. 5549360, pp. 275-278.
15. Salleh, H., Rashid, N.M. Wideband piezoelectric energy harvester for condition monitoring in power plant application. (2009) 16th International Congress on Sound and Vibration 2009, ICSV 2009, 7, pp. 4577-4584.
16. Mohammed, H., Salleh, H., Yusoff, M.Z. An experimental method for effusivity determination of different scratched temperature sensors. (2009) ICEE 2009 - Proceeding 2009 3rd International Conference on Energy and Environment: Advancement Towards Global Sustainability, art. no. 5398639, pp. 240-250.
17. A.A. Md Ralib, A.N. Nordin, and H. Salleh , " Fabrication and Performance Technique of Piezoelectric Energy Harvesters, Proceedings of 3rd International Conference on Energy and Environment (ICEE), Malacca, Malaysia December 7-8, 2009.Dec 2009
18. Shuaib, N.H., Anuar, A., Salleh, H., Hasan, M.H. A strategy to evaluate programme level outcomes (2009) 2009 International Conference on Engineering Education, ICEED2009 - Embracing New Challenges in Engineering Education, art. no. 5490594, pp. 159-163.
19. Hanim S., T.F. Yusaf and M.K. Zol Azlan, 2000, "Level Control Experiment Via Internet" TENCON Proceedings – Intelligent Systems and Technologies for the New Millenium, IEEE, Volume III 24-27 September 2000, Kuala Lumpur Malaysia pp 546-549. ISBN: 0-7803-6355-8
20. Hanim Salleh, Mohd Sofwan Mohd Resali, Mohammed Dhia Shaker. Design and Implementation of the Wideband Tunable PZT Energy Harvester in Power Generation Plant in Malaysia. 10th International Workshop on Piezoelectric Materials and Applications in Actuators and 8th Annual Energy Harvesting Workshop. 14th-18th July 2013. Hannover Germany.
21. Tony Ow Koon Seong, Hanim Salleh and Anis Nurashikin. Optimization of Resonator Design For Vibration-based Electromagnetic Energy Harvester. Proceedings 4th International Conference On Noise, Vibration And Comfort (NVC) 2012. 26th to 29th November 2012 Kuala Lumpur, Malaysia.
22. Salleh, H. and Brennan, M.J. 2005. Design of a beam-like neutraliser to control flexural waves on an infinite beam. Proceedings of the NOVEM 2005: Noise and Vibration: Emerging Methods International Congress, Theme: Prediction for Noise Design. 18-21 April 2005.Saint Raphael.France. paper 019, pp1-12. ISBN: 2-9515667-1-9.
23. Salleh, H. and Brennan, M.J., Design of a wideband vibration neutraliser to control flexural waves on an infinite beam. Proceedings of the Institute of Acoustics, Vol 26 Pt2, 2004, 555-556.
24. Firdaus Muhamad and H. Salleh, "Potential Materials for Microgenerator and Nanogenerator",, Proceedings of 3rd National Graduate Conference, UNITEN, 2015.
25. Mun Heng Lam and H. Salleh, "Advances in Configuration and Structure Modification for Piezoelectric Energy Harvesters", Paper ID: 119, Proceedings of 2nd National Graduate Conference, UNITEN, 2014.
26. Raja Nurulhani Raja Badiuzzaman and Hanim Salleh Design Considerations for Power Management of a Vibration-Based Energy Harvester System Proceedings of 2nd National Graduate Conference, UNITEN, 2014.
27. Linasuriani Muhamad and H. Salleh, "Potential Materials for Microgenerator and Nanogenerator", Paper ID: 135, Proceedings of 2nd National Graduate Conference, UNITEN, 2014.
28. M.Sofwan M.Resali and H.Salleh, "Hybrid Energy Storage Power Management Energy Harvesting Circuit for Wireless Application", Paper ID: 143, Proceedings of 2nd National Graduate Conference, UNITEN, 2014.
29. Khairul Adly Wahib, Hanim Salleh, Optimizing Piezoelectric Bimorph Bender Power Output By Using Low Level Ambient Vibration, Proceedings SCORED 2008 Universiti Tenaga Nasional, 19-20 August 2008.

30. Adzly Anuar, Norshah Hafeez, Hanim Salleh. Implementation of outcome-based education system in the teaching and learning process in the Department of Mechanical Engineering: An Experience. June 2008.
31. Hanim Salleh, Adzly Anuar, Norshah Hafeez,. Creating Students Excitement and Involvement in Learning Engineering Coursework - a "Co-Active" approach. June 2008. UNITEN Conference on Teaching and Learning (UCTL '08).
32. Mohammed, H., Salleh, H., Yusoff, M. Z., Numerical Simulation of the Transient Response for Different Types of Erodable Heat Flux Gauges, Proceedings SCORED May 2007, UNITEN.
33. Salleh, H, Densibali, A., Y.Abdullah, M. Development of Positive Position Feedback Controller For Active Vibration Control of Beam, Proceedings SCORED May 2007, UNITEN.
34. R. Aznial, B. M. Bashir and S. Hanim. Fiber Optic Pressure Transducer for Pressure Measurement in a Shock Tunnel: A Review, Proceedings SCORED May 2007, UNITEN.
35. Hussein Mohammed, Hanim Salleh, Mohd Zamri Yusoff, Development of Fiber Optic Pressure Transducer For Disturbance Measurements in a Shock Tunnel Facility - Heat Transfer Study in Shock Tunnel Application, In: Proceedings of the National Conference of Engineering (SCORED), Paper No. ME09, 4-7th December 2005, Selangor, Malaysia.
36. Hanim Salleh, Mohd Azree Idris, Abdul Talip Zulkarnain, Halimatun Hashim, Zaimah Hasan, Izham Zainal Abidin: *Promoting academic excellence amongst the engineering students*.
37. Rezal Khairi Ahmad, Hanim Salleh, Fazrena Azlee Hamid: *Review of current state of Energy Scavenging Technologies*.
38. Hanim Salleh, Dr. Fazrena Azlee Hamid, Nur Azwani, Khairul Fadzli, Ng Yeow Chong, Dominic Hua Shi Hao "ESCAB"-An Energy Scavenging Charging Booth, COE Research Bulletin- UNITEN, Vol. 5, Issue No.1/2, Oct 2007– June 2008.
39. Hussein Mohammed, Hanim Salleh, Mohd Zamri Yusoff , Development of A Low Cost Fast Response Coaxial Surface Junction Thermocouple, COE Research Bulletin- UNITEN, Vol. 5, Issue No.1/2, Oct 2007 – June 2008.

## Patents

1. *A Hybrid Energy Harvester PI2016704385 Year 2016*
2. *Durable 5DOF Animal RFID Eartag. PI 2015702540*. Year: 08/2015
3. *Multipurpose Ambulatory and Mobility Device. PI 2014700421*. Year: 02/2014
4. *A Leverage Device. Patent Pending. PI 2012700189*. Year: 05/2012
5. *Micropower Generator For Self Powered Sensor Node. Patent Pending PI 2010001987*. Year: 10/2010
6. *Head Gear incorporated with safety system, PI 20091933,*. Year: 09/2009
7. *Measuring Device, PI 20090534.*. Year: 05/2009
8. *Charging Device Filing Date .PI 20084344*. Year: 10/2008

## Grants

| | |
|---|---|
| *Dec 2018- Mar 2020* | Characterisation of a flexible hybrid triboelectric energy harvester (fhteh) performance based on the structural and electrodes surface modification. UNIIG. RM20,000. |
| *Mei 2018 – April 2019* | Kajian Penambahbaikan Modul ESI SETARA RM420,221, member. Ministry of Education |

| | |
|---|---|
| *April 2018- Feb 2019* | Kajian Penarafan MyQUEST 2018, RM172,376, member. Ministry of Education |
| *2017* | Kajian Penarafan SETARA 2017, member. Ministry of Education |
| *Jul 2014* | Effect of multi-structural excitation on the low frequency piezoelectric energy harvester performance for self-powered sensor. FRGS. RM128,000 |
| *Jul 2013-June 2016* | Improving the performance of inertial micro power generators transduction mechanism by structural modification using rubber compound. ERGS. RM130,000 |
| *May 2012* | IIUM, RAGS 2012.RM50, 000. Design and Development of MEMS Acoustic Energy Harvester (member) |
| *May 2011* | Development of an Acoustic Energy Harvester Device for Self-Powered Sensor Node in Power Plant Application .completed. RM425,000 |
| Sep 2009-Sept 2011 | Design Simulation of MEMS Vibration-based energy harvester. FRGS RM50,000. |
| Sep 2009 | Development of an energy harvester device for wireless condition monitoring leader. RM415, 000. |
| *Dec 2006-Dec 2008* | Development of vibration-based micro power generator for wireless Applications. MOSTI E-Science fund. RM 203,995. |
| Dec 2006 –Dec2008 | Fabry-Perot interferometric optical pressure sensor for turbo-machinery application, member. MOSTI .e-science fund RM 383,000. |
| Jul 2005-2008 | Development of Fibre Optic Pressure Transducers for Disturbance Measurements in a Shock Tunnel Facility, RM404, 000. |

## Awards

1. *Sept 2019* Award: Gold Medal. "Flexible Hybrid Triboelectric Energy Harvester (FHTEH) for Smart Electronics Devices", Pecipta19.
2. *May 2018* Award: Gold Medal. "Triboelectric Hybrid Vibration-Based Generator for Android application condition Monitoring system", International Invention, Innovation & Technology Exhibition 2018.
3. *Dec 2016* Award: Silver Medal "Novel Hybrid Vibration-Based Generator for Android application condition Monitoring system" International Seoul International Invention Fair.
4. *Apr 2016* Award: Gold Medal. "Novel Hybrid Vibration-Based Generator for Android application condition Monitoring system", International engineering Invention & Innovation Exhibition (i-Envex)
5. *Feb 2015* Award: Silver Medal . Malaysia Technology Expo 2015, The Leading International Innovation and Invention Expo. Kuala Lumpur. “V-Gen III : Hybrid Tunable Energy Harvester for self-powered sensor”.

6. *May 2014* Award: 2. Gold Medal .International Invention, Innovation & Technology Exhibition 2014, "Technical Engineering Vocabulary Assessment (TEVA)".

7. *May 2014* Award: Silver Medal .International Invention, Innovation & Technology Exhibition 2014, "V-Gen II: Low frequency Vibration-Based Energy Harvester Enhancement Using Green Material".

8. *Dec 2012* Award: Gold and Special Award, KOREA International Women's Invention Exposition (KIWIE), Seoul, Korea, "RF Energy Harvesting System

9. *Dec 2012* Award: "Invention for Women Order of Merit", individual category, World Inventor Award Festival, Seoul , Korea.

10. *Sep 2012* Award: Silver Medal, KOREA International Women's Invention Exposition (KIWIE) 2012 in Seoul, Korea, "V-Gen Inertial Broadband Micropower Generator for Perpetual Wireless Sensor Node"

11. *Sep 2012* Award: Silver Medal, KOREA International Women's Invention Exposition (KIWIE) 2012 in Seoul, Korea "Incomplete spinal cord injury (SCI) physiotheraphy"

12. *Jul 2012* Award: Anugerah Tokoh Akademik 2012 (The Grand Academic Award 2012), UNITEN.

13. *Feb 2012* Award: 10. "The Best Award" special award , "Acoustic – Based Micropower Generator for Condition Monitoring of Power Plant Equipment" in Malaysia Technology Expo 2011 (MTE 2012), The Leading International Innovation and Invention Exhibition. Kuala Lumpur

14. *Feb 2012* Award: Gold Medal . "Acoustic – Based Micropower Generator for Condition Monitoring of Power Plant Equipment" . in Malaysia Technology Expo 2011 (MTE 2012), The Leading International Innovation and Invention Exhibition. Kuala Lumpur

15. *May 2011* Award: Silver Medal "Physiotherapy Device To Assist Spinal Cord Injury (Sci) Patients" International Invention, Innovation & Technology Exhibition 2011

16. *Feb 2011* Award: Gold Medal . "Inertial Broadband Micropower Generator For Perpetual Powered Wireless Sensor Node". Malaysia Technology Expo 2011

17. *Feb 2011* Award: Silver Medal."MEMS Piezoelectric Energy Harvester for Wireless Condition Monitoring". Malaysia Technology Expo 2011

18. *Feb 2011* Award: Bronze Medal. "MEMS Flat Spiral Spring Electromagnetic Energy Harvester For Self Powered Sensor". Malaysia Technology Expo 2011

19. *Feb 2011* Award: "Woman inventor of the year" Special award in Malaysia Technology Expo 2011, "Inertial Broadband Micropower Generator For Perpetual Powered Wireless Sensor Node"

20. *May 2010* Award: Gold Medal .International Invention, Innovation & Technology Exhibition 2010 (ITEX 2010). "V-Gen a Vibration-Based Micropower Generator for Self-Powered Sensor Node".

21. *May 2010* Award: Bronze Medal . "Simulation on MEMS Piezoelectric Energy Harvester",International Islamic University Malaysia Research Innovation and Exhibition (IRIE 2010)
22. *Feb 2010* Award: Bronze Medal . Malaysia Technology Exhibition, "MEMS Piezoelectric Energy Harvester for Wireless Condition Monitoring"
23. *Oct 2009* Award: Selected Showcase Product, Persidangan Kebangsaan IKS Bumiputera, 2009
24. *Jul 2009* Award: Best Research Award, UNITEN
25. *May 2009* Award: Gold Medal International Invention, Innovation & Technology Exhibition, ESCAB II
26. *Nov 2008* Award: Silver medal, Eureka08, ESCABII. charging booth. EUREKA. Belgium
27. *May 2008* Award: Gold Medal, ITEX 08, ESCAB 1. International, MINDS, Malaysia
28. *May 2008* Award: Silver medal, ITEX 08, Smart Helmet
29. *Jul 2006* Award: Best Teaching Award, 2006, UNITEN

## Other Services

**University Level**

1. Senate Member 2018-2020
2. Senate Member 2015-2018
3. Student development committee, member, since 2006-2009
4. Academic Quality Assurance Committee., member, 07-09
5. ISO Internal Auditor, 2009-2013
6. QE Kelompok internal Auditor
7. Chairman of APA Auditor, 2013
8. SCORUN committee, 2008-2009
9. Panel anugerah kecemerlangan pelajar 2006-2013
10. Orientation Advisory Committee, member, 2000
11. Head (Pengetua) Kelompok ilmu 2006-2013
12. Fellow (Residen felo) Kelompok Ilmu, Student Residential, 1999- 2002
13. Advisor for Spiritual Bureau Advisor, Kelompok Ilmu, 1999-2002

**College Committee:**

14. College of Engineering Academic Quality Assurance Committee, member, 2007-2008
15. College of Engineering , Accreditation committee member, 2007-2008
16. COE-TNBR Collaboration committee, member 2007-2008
17. College of Engineering, steering committee on international accreditation, member, 2007-2008
18. COE Outcome Based Education (OBE) committee , member, 2007-2008
19. College of Engineering Academic Committee, member, 2007-2009, College
20. Student Development Committee, Chairperson, 2006-2008,College
21. Shock Tunnel Laboratory, manager, 2006-2007, Department

22. Quality Department, Chairperson, 2005-2008,
23. College management meeting, Department representative, 2001,College
24. Discipline officer, 2001-2008, College
25. Credit transfer member, 2001-2008,department
26. Industrial training coordinator 2001,Department
27. Measurement lab advisor,2001, Department
28. Society of Engineer (SIR), advisor, 2001, College
29. Advisor/Organizer, EPEXCOM 2000 (engineering project exhibition competition), 2000

Other Initiatives:

1. Academic Quality Assurance Committee – AQAC, 2008

- Developing the the code of practice and standard operating procedure for ISO documentation for the university academic quality assurance.

2. AKC – Anugerah Kualiti Canselor , 2008, Involved in preparing document under 'customer focus'.

Obtaining International accreditation from Institution of Mechanical Engineers (IMECHE) for Bachelor of Mechanical Engineering (Hons), 2007.

- As the chairman of the accreditation task force in preparing the documentation and coordinating necessary preparations up to the panel visit.

3. Obtaining national accreditation from Engineering Accrediation Council (EAC) for Bachelor of Mechanical Engineering (Hons), 2007.

- Involved in preparing the document and assisting the panel visit.

## Subjects Taught

1. Mechanical Vibration
2. Numerical Methods for Engineers
3. Mechanics
4. Engineering Measurements & Lab
5. Modeling & Analysis of Dynamic Systems
6. Research Methodology
7. Dynamics
8. Thermodynamics

## Postgraduate Supervision

Student supervision

| Program | Status | As a Chairman | As a Member |
|---|---|---|---|
| PhD | Graduated | 3 | 1 |
| | Ongoing | 1 | 2 |
| Master | Graduated | 8 | 1 |
| | Ongoing | 3 | - |

## Postgraduates

| No | Name | Program | Structure |
|---|---|---|---|
| 1. | HUSSEIN A. MOHAMMED | PhD Engineering | Structure A (By Research) |
| 2. | MOHAMMED DHIA SHAKER SALIM | PhD Engineering | Structure A (By Research) |
| 3. | MOHD SOFWAN BIN MOHD RESALI | PhD Engineering | Structure A (By Research) |
| 4. | AHMED BASHEER GHENI | PhD Engineering | Structure A (By Research) |
| 5. | NOOR HAFIZAH HANIM BINTI ABDUL TALIB | PhD Engineering | Structure A (By Research) |
| 6. | AHMAD RAFIQ MOHD KHAIRUDIN | Master of Electrical Engineering | Structure B (By Coursework & Research) |
| 7. | NUR FADIAH ABDUL MUTALIB | Master of Electrical Engineering | Structure B (By Coursework & Research) |
| 8. | AHMED BASHEER GHENI | Master of Mechanical Engineering | Structure B (By Coursework & Research) |
| 9. | LAM MUN HENG | Master of Mechanical Engineering | Structure A (By Research) |
| 10. | Linasuriani Binti Muhamad | Master of Mechanical Engineering | Structure A (By Research) |
| 11. | M UPHALLEE A/L MANIAM | Master of Mechanical Engineering | Structure B (By Coursework & Research) |
| 12. | MOHAMMAD KHAIRUL AZWAN BIN AZHAR | Master of Mechanical Engineering | Structure A (By Research) |
| 13. | MOHANNAD SALEH HAMMADI | Master of Mechanical Engineering | Structure B (By Coursework & Research) |

| | | | |
|---|---|---|---|
| 14. | MOHD FIRDAUS BIN JAAFAR | Master of Mechanical Engineering | Structure B (By Coursework & Research) |
| 15. | MOHD SOFWAN BIN MOHD RESALI | Master of Mechanical Engineering | Structure A (By Research) |
| 16. | NOOR HAFIZAH HANIM BINTI ABDUL TALIB | Master of Mechanical Engineering | Structure A (By Research) |
| 17. | OMAR MOHAMMED SALMAN | Master of Mechanical Engineering | Structure B (By Coursework & Research) |
| 18. | Satish Rao a/l Ganapathy | Master of Mechanical Engineering | Structure A (By Research) |

## Undergraduates

| No. | Semester | Name | Title |
|---|---|---|---|
| 1. | 2013/14s2 | Mohd Zulhilmi Bin Zakaria | Instrumentation For The Road Surface Generator Performance Rig |
| 2. | 2007/8s1 | Abdul Hisham Bin Abdul Halim | Design A Portable Class 1000 Clean Booth |
| 3. | 2007/8s1 | Azri Bin Asmon | Design Of An Energy Scavenging Device For An Automobile |
| 4. | 2007/8s1 | Ikmal Aizat Bin S Mada | Optimum Piezoelectric Design For Vibration Based Energy Scavenging Application |
| 5. | 2007/8s1 | Khairul Fadzli Bin Azmi | Design Of An Energy Scavenging Device Based On The Airflow |
| 6. | 2007/8s1 | Mohd Iqbal Bin Mohd Din | Design Visual Inspection Fixture |

| No. | Semester | Name | Title |
|---|---|---|---|
| 7. | 2007/8s1 | Muhammad Firdaus B Ahmad Mansor | Automated/Semi Automated Sorting Device For Printed Material. |
| 8. | 2007/8s1 | Ng Shi Jin | An Energy Scavenging Device Based On Water Flow |
| 9. | 2007/8s1 | Wan Zuhairi Bin Wan Omar | Design Of A Safety Gadget For A Motorcyclist |
| 10. | 2007/8s2 | Ng Yeow Chong | Failure Analysis Of Random Vibration In Circular Steel Bar (Shaft) |
| 11. | 2008/9s1 | Asrizairi Bin A. Rahman | Design Of A Portable Electronics Counter Based On Human Movement |
| 12. | 2008/9s1 | Faizal Bin Zulkifli | Design Of Automatic Cat Feeder |
| 13. | 2008/9s1 | Norabita Binti Md Rashid | (Spt) Vibration Based Micropower Generator For Power Plant Application |
| 14. | 2008/9s1 | Nurul Farhana Binti Yahya | (Spt) Performance Of Building Integrated Photovoltaic (Bipv) Systems |
| 15. | 2008/9s1 | Siti Aishah Binti Rusdan | (Spt) Design Of A Hybrid Energy Scavenging System For Usb Charging Application |
| 16. | 2008/9s2 | Ainijohanna Binti Arifin | Design Of A Sticker Label Dispenser For Electronics Parts |
| 17. | 2008/9s2 | Lai Kong Kean | Design Of A Smart Helmet With Safety Features |
| 18. | 2008/9s2 | Mohd Nor Khairi Bin Kamaruddin | Comparisons Of Micropower Generators Performance For Energy Harvesting Application |
| 19. | 2009/10s1 | Md Ruzaidi Zaim Bin Md Razali | Design Of An Efficient Vision System For Automobile |
| 20. | 2009/10s1 | Mohd Azzizi Azzizan Bin Wahab | Design Of A Tree Tagging Nail For Rfid Application |

| No. | Semester | Name | Title |
|---|---|---|---|
| 21. | 2009/10s1 | Mohd Hafeeq Bin Ibrahim | Design Of A Smart And Safe Pole Climber |
| 22. | 2009/10s1 | Mohd Nazri Bin Elias | Performance Of The Solar Charging Booth. |
| 23. | 2009/10s1 | Ng Kiang Wei | (Spt) Application Of Heat Pipe Evacuated Tube Solar Collector System |
| 24. | 2009/10s1 | Siti Aminah Binti Amanan | Simulation Of Mems Vibration Energy Harvester Device Performance |
| 25. | 2009/10s1 | Teh Hooi Ping | (Spt) Large Egg Incubator For Poultry Application |
| 26. | 2009/10s2 | Syed Mohd Ihsan Bin Syed Abdul Halim | Case Study Of Condition Monitoring Of Rotating Machinery |
| 27. | 2010/11s1 | Mohamad Irwan Bin Alias | Development Of Turtle Eggs Hatch Detection Device |
| 28. | 2010/11s1 | Mohd Affendi Bin Mat Rifin | Designing Medicine Organiser Device |
| 29. | 2010/11s1 | Muhamad Zamzuri Bin Zulkifli | Design And Development Of A Rehabilitation Equipment To Assist Patient With Spinal Cord Injury In Walking Practice. |
| 30. | 2010/11s1 | Muhammad Izuwan Bin Mokhtar | Vibration Condition Monitoring System Using Labview |
| 31. | 2011/12s1 | Ilhami B Abdul Malik | Acoustic Mapping For An Acoustic Energy Harvester In Industrial Application |
| 32. | 2011/12s2 | Amirah Athirah Binti Rosmadi | Analysis And Configuration On High Vibration At Bucket Elevator System Of Coal Ships' Unloader |
| 33. | 2011/12s2 | Devananthan A/L Supramaniam | Design Of A Spiral Resonator Electromagnetic Micropower Generator |
| 34. | 2011/12s2 | Lee Dah Soon | Design Of A Rfid Tagging Gun For Hardwood Tree |

| No. | Semester | Name | Title |
|---|---|---|---|
| 35. | 2011/12s2 | Mohd Sufi Bin Mohd Zahir | Design Of A Hybrid Inertial Micro Power Generator For Industrial Application |
| 36. | 2011/12s3 | Fakhrul Razi Bin Zahari | Performance Evaluation Of Acoustic-Based Energy Harvesters |
| 37. | 2011/12s3 | Mohd Shaidil Eman Bin Zakarih | Optimization Of Acoustic Diaphragms Performance For Energy Harvesting Application |
| 38. | 2012/13s2 | Ahmad Termizi Bin Rosly | Portable Pet Bottle Compactor |
| 39. | 2012/13s2 | Aishah Binti Haron | Mobility Assisted Device For Elderly |
| 40. | 2012/13s2 | Haritheran A/L Sathiaseelan | Design Of A Tunable Electromagnetic Energy Harvester |
| 41. | 2012/13s2 | Low Chan Yeong | Design Of A Tunable Pzt Energy Harvester |
| 42. | 2012/13s2 | Muhammad Sadiq Bin Mohd Anipah | Solar Hot Water Dispenser |
| 43. | 2012/13s2 | Noor Hafizah Hanim Binti Abdul Talib | Long Life Animal Rfid Tag |
| 44. | 2012/13s2 | Shahrul Bin Zainurin | Lifting And Transportation Device For Bed Ridden Patients |
| 45. | 2013/14s1 | Lai Kiew Ming | Design Of The Performance Rig For Road Surface Generator |
| 46. | 2013/14s1 | Mohamad Nur Faiz Bin Mohd Norizan | Energy Scavenging Device From Passing Vehicles On The Highway |
| 47. | 2013/14s1 | Muhammad Azri Syahmi Bin Mohamed Kusni | Design Of A Kinetic Induced Generator From The Speed Road Bump |
| 48. | 2013/14s1 | Muhammad Hanif Bin Abdul Karim | Design Of An Energy Harvester Pavement |

| No. | Semester | Name | Title |
|---|---|---|---|
| 49. | 2013/14s1 | Muhd Nur Shazwan B Muhd Nur Hishamuddin | Design Of A Portable Hand-Crank Charger |
| 50. | 2013/14s1 | Nurul Amilin Binti Mazlan | Design Of A Portable Powerless Fridge |
| 51. | 2013/14s2 | Amirah Safra Binti Zolkapli | Innovative Foot Washer |
| 52. | 2014/15s1 | Hud Bin Mohd Sharif | Arm Wearable Energy Scavenger Device |
| 53. | 2014/15s1 | Muhammad Fahmi Bin Nazri | Design Of A Movement-Based Energy Harvester For Sports And Recreational Application |
| 54. | 2014/15s1 | Seeh Chong Chin | Design Of An Energy Scavenging Pavement |
| 55. | 2014/15s2 | Karthikgesu A/L Palanisamy | Design Of A Chicken Cutting Machine |
| 56. | 2014/15s2 | Mohamad Hafiz Haikal Bin Kamaruzamend | Optimal Energy Harvesting Through Vibration Using Piezoelectric At Train Tunnel |
| 57. | 2014/15s2 | Vickneswaran A/L R.Thyagarajan | Design Of An Innovative Recycling Bin |
| 58. | 2015/16s1 | Chong Hong Leong | Effect Of Coal Selection On The Boiler Performance In Thermal Power Plant |
| 59. | 2015/16s1 | Faiqah Binti Mohd Fadzil | Improvement Of Drum Screen Design At Cooling Water Intake System |
| 60. | 2015/16s1 | Ikhwan Harish Bin Muhamad Jamaludin Yasin | Design Of An Energy Harvester For Military Applications |
| 61. | 2015/16s1 | Muhammad Lutfi Bin Darus | Design Of Wearable Alarm Device For Deaf People |
| 62. | 2015/16s1 | Sofea Balqis Binti Jub,Li | Design Of An Electromagnetic Energy Harvester |
| 63. | 2015/16s2 | Indran Al Kunusilin | Design And Developmentof A Spray Machine For Bordeux Mixture Fertilizer |

| No. | Semester | Name | Title |
|---|---|---|---|
| 64. | 2015/16s2 | Mohd Azrul Bin M.A Abdul Rahim | Design And Development Of A Poultry Cutting Machine |
| 65. | 2016/17s1 | Mohamed Elfatih Moustafa Abdualrahman | Design Of A Multipurpose Mobility Device For People With Walking Disability |
| 66. | 2016/17s1 | Munir Asnawi Bin Mohmad | Design Of A Mass Tunable Piezoelectric Energy Harvester System |
| 67. | 2016/17s1 | Satish Rao A/L Ganapathy | Design Of A Stiffness Tunable Piezoelectric Energy Harvester System |
| 68. | 2016/17s2 | Ahmad Fariz Syahman Bin Yahaya | Design And Fabrication Of A Portable Pellet Fertilizer Spreader |
| 69. | 2016/17s2 | Muhammad Nazmie Sallihin | Improvement And Evaluation Of A Hybrid Vibration-Based Generator |
| 70. | 2016/17s2 | Muhammad Zufar Bin Ahmad Faudzli | Performance Comparison Of Vertical L-Shape And Orthogonal Piezoelectric Energy Harvester |
| 71. | 2006/7s1 | Mohammad Nazir Bin Norlan | Design Of A Tunable Vibration Absorber |
| 72. | 2006/7s1 | Mohd Rizalman Bin Md Eusoff | Design Of An Experimental Rig For Beam Vibration Studies |
| 73. | 2006/7s1 | Prabaharan A L Subramaniam | Characterising The Performance Of An Absorber Used In Practical Applications |
| 74. | 2006/7s2 | Amir Rashidi Bin Aziz | An Energy Scavenging Device For Condition Monitoring Application |
| 75. | 2006/7s2 | Mohd Nadzim Bin Nik Omar | Design Of A Torch Light Using A Vibration-Based Battery |
| 76. | 2006/7s2 | Muhammad Nurudin Bin Mohd Yusof | An Energy Scavenging Device For Automotive Application |

| No. | Semester | Name | Title |
|---|---|---|---|
| 77. | 2006/7s2 | Zaharul Ramzan Bin Zahari | Design Of An Energy Scavenging Personal Alarm System |
| 78. | 2007/8s2 | Abdul Hisham Bin Abdul Halim | Design A Portable Class 1000 Clean Booth |
| 79. | 2007/8s2 | Azri Bin Asmon | Design Of An Energy Scavenging Device For An Automobile |
| 80. | 2007/8s2 | Ikmal Aizat Bin S Mada | Optimum Piezoelectric Design For Vibration Based Energy Scavenging Application |
| 81. | 2007/8s2 | Khairul Fadzli Bin Azmi | Design Of An Energy Scavenging Device Based On The Airflow |
| 82. | 2007/8s2 | Mohd Iqbal Bin Mohd Din | Design Visual Inspection Fixture |
| 83. | 2007/8s2 | Muhammad Firdaus B Ahmad Mansor | Automated/Semi Automated Sorting Device For Printed Material. |
| 84. | 2007/8s2 | Ng Shi Jin | An Energy Scavenging Device Based On Water Flow |
| 85. | 2007/8s2 | Wan Zuhairi Bin Wan Omar | Design Of A Safety Gadget For A Motorcyclist |
| 86. | 2008/9s1 | Ng Yeow Chong | Failure Analysis Of Random Vibration In Circular Steel Bar (Shaft) |
| 87. | 2008/9s2 | Asrizairi Bin A. Rahman | Design Of A Portable Electronics Counter Based On Human Movement |
| 88. | 2008/9s2 | Faizal Bin Zulkifli | Design Of Automatic Cat Feeder |
| 89. | 2008/9s2 | Norabita Binti Md Rashid | (Spt) Vibration Based Micropower Generator For Power Plant Application |
| 90. | 2008/9s2 | Nurul Farhana Binti Yahya | (Spt) Performance Of Building Integrated Photovoltaic (Bipv) Systems |

| No. | Semester | Name | Title |
|---|---|---|---|
| 91. | 2008/9s2 | Siti Aishah Binti Rusdan | (Spt) Design Of A Hybrid Energy Scavenging System For Usb Charging Application |
| 92. | 2009/10s1 | Ainijohanna Binti Arifin | Design Of A Sticker Label Dispenser For Electronics Parts |
| 93. | 2009/10s1 | Lai Kong Kean | Design Of A Smart Helmet With Safety Features |
| 94. | 2009/10s1 | Mohd Nor Khairi Bin Kamaruddin | Comparisons Of Micropower Generators Performance For Energy Harvesting Application |
| 95. | 2009/10s2 | Md Ruzaidi Zaim Bin Md Razali | Design Of An Efficient Vision System For Automobile |
| 96. | 2009/10s2 | Mohd Azzizi Azzizan Bin Wahab | Design Of A Tree Tagging Nail For Rfid Application |
| 97. | 2009/10s2 | Mohd Hafeeq Bin Ibrahim | Design Of A Smart And Safe Pole Climber |
| 98. | 2009/10s2 | Mohd Nazri Bin Elias | Performance Of The Solar Charging Booth. |
| 99. | 2009/10s2 | Ng Kiang Wei | (Spt) Application Of Heat Pipe Evacuated Tube Solar Collector System |
| 100. | 2009/10s2 | Siti Aminah Binti Amanan | Simulation Of Mems Vibration Energy Harvester Device Performance |
| 101. | 2009/10s2 | Teh Hooi Ping | (Spt) Large Egg Incubator For Poultry Application |
| 102. | 2010/11s1 | Syed Mohd Ihsan Bin Syed Abdul Halim | Case Study Of Condition Monitoring Of Rotating Machinery |
| 103. | 2010/11s2 | Mohamad Irwan Bin Alias | Development Of Turtle Eggs Hatch Detection Device |
| 104. | 2010/11s2 | Mohd Affendi Bin Mat Rifin | Designing Medicine Organiser Device |

| No. | Semester | Name | Title |
|---|---|---|---|
| 105. | 2010/11s2 | Muhamad Zamzuri Bin Zulkifli | Design And Development Of A Rehabilitation Equipment To Assist Patient With Spinal Cord Injury In Walking Practice. |
| 106. | 2010/11s2 | Muhammad Izuwan Bin Mokhtar | Vibration Condition Monitoring System Using Labview |
| 107. | 2011/12s3 | Amirah Athirah Binti Rosmadi | Analysis And Configuration On High Vibration At Bucket Elevator System Of Coal Ships' Unloader |
| 108. | 2011/12s3 | Ilhami B Abdul Malik | Harvesting Acoustic Energy From Power Plant Equipment |
| 109. | 2011/12s3 | Lee Dah Soon | Design Of A Rfid Tagging Gun For Hardwood Tree |
| 110. | 2011/12s3 | Mohd Sufi Bin Mohd Zahir | Design Of A Hybrid Inertial Micro Power Generator For Industrial Application |
| 111. | 2012/13s1 | Devananthan A/L Supramaniam | Design Of A Spiral Resonator Electromagnetic Micropower Generator |
| 112. | 2012/13s2 | Devananthan A/L Supramaniam | Design Of A Spiral Resonator Electromagnetic Micropower Generator |
| 113. | 2012/13s2 | Fakhrul Razi Bin Zahari | Performance Evaluation Of Acoustic-Based Energy Harvesters |
| 114. | 2013/14s1 | Ahmad Termizi Bin Rosly | Portable Pet Bottle Compactor |
| 115. | 2013/14s1 | Aishah Binti Haron | Mobility Assisted Device For Elderly |
| 116. | 2013/14s1 | Haritheran A/L Sathiaseelan | Design Of A Tunable Electromagnetic Energy Harvester |
| 117. | 2013/14s1 | Low Chan Yeong | Design Of A Tunable Pzt Energy Harvester |
| 118. | 2013/14s1 | Muhammad Sadiq Bin Mohd Anipah | Solar Hot Water Dispenser |

| No. | Semester | Name | Title |
|---|---|---|---|
| 119. | 2013/14s1 | Noor Hafizah Hanim Binti Abdul Talib | Long Life Animal Rfid Tag |
| 120. | 2013/14s1 | Shahrul Bin Zainurin | Lifting And Transportation Device For Bed Ridden Patients |
| 121. | 2013/14s2 | Lai Kiew Ming | Design Of The Performance Rig For Road Surface Generator |
| 122. | 2013/14s2 | Mohamad Nur Faiz Bin Mohd Norizan | Energy Scavenging Device From Passing Vehicles On The Highway |
| 123. | 2013/14s2 | Muhammad Azri Syahmi Bin Mohamed Kusni | Design Of A Kinetic Induced Generator From The Speed Road Bump |
| 124. | 2013/14s2 | Muhammad Hanif Bin Abdul Karim | Design Of An Energy Harvester Pavement |
| 125. | 2013/14s2 | Muhd Nur Shazwan B Muhd Nur Hishamuddin | Design Of A Portable Hand-Crank Charger |
| 126. | 2013/14s2 | Nurul Amilin Binti Mazlan | Design Of A Portable Powerless Fridge |
| 127. | 2014/15s1 | Amirah Safra Binti Zolkapli | Innovative Foot Washer |
| 128. | 2014/15s2 | Hud Bin Mohd Sharif | Arm Wearable Energy Scavenger Device |
| 129. | 2014/15s2 | Muhammad Fahmi Bin Nazri | Design Of A Movement-Based Energy Harvester For Sports And Recreational Application |
| 130. | 2014/15s2 | Seeh Chong Chin | Design Of An Energy Scavenging Pavement |
| 131. | 2015/16s1 | Karthikgesu A/L Palanisamy | Design Of A Chicken Cutting Machine |
| 132. | 2015/16s1 | Mohamad Hafiz Haikal Bin Kamaruzamend | Optimal Energy Harvesting Through Vibration Using Piezoelectric At Train Tunnel |
| 133. | 2015/16s1 | Vickneswaran A/L R.Thyagarajan | Design Of An Innovative Recycling Bin |

| No. | Semester | Name | Title |
|---|---|---|---|
| 134. | 2015/16s2 | Chong Hong Leong | Effect Of Coal Selection On The Boiler Performance In Thermal Power Plant |
| 135. | 2015/16s2 | Faiqah Binti Mohd Fadzil | Improvement Of Drum Screen Design At Cooling Water Intake System |
| 136. | 2015/16s2 | Ikhwan Harish Bin Muhamad Jamaludin Yasin | Design Of An Energy Harvester For Military Applications |
| 137. | 2015/16s2 | Muhammad Lutfi Bin Darus | Design Of Wearable Alarm Device For Deaf People |
| 138. | 2015/16s2 | Sofea Balqis Binti Jub,Li | Design Of An Electromagnetic Energy Harvester |
| 139. | 2016/17s1 | Indran Al Kunusilin | Design And Developmentof A Spray Machine For Bordeux Mixture Fertilizer |
| 140. | 2016/17s2 | Mohamed Elfatih Moustafa Abdualrahman | Design Of A Multipurpose Mobility Device For People With Walking Disability |
| 141. | 2016/17s2 | Munir Asnawi Bin Mohmad | Design Of A Mass Tunable Piezoelectric Energy Harvester System |
| 142. | 2016/17s2 | Satish Rao A/L Ganapathy | Design Of A Stiffness Tunable Piezoelectric Energy Harvester System |
| 143. | 2017/18s1 | Ahmad Fariz Syahman Bin Yahaya | Design And Fabrication Of A Portable Pellet Fertilizer Spreader |
| 144. | 2017/18s1 | Muhammad Nazmie Sallihin | Improvement And Evaluation Of A Hybrid Vibration-Based Generator |
| 145. | 2017/18s1 | Muhammad Zufar Bin Ahmad Faudzli | Performance Comparison Of Vertical L-Shape And Orthogonal Piezoelectric Energy Harvester |
| 146. | 2017/18s2 | Kartik A/L Subramaniam | Mechanical Design & Mechanics |
| 147. | 2017/18s2 | Mohamad Syamil Bin Mohd Salim | Vibration And Mems |

| No. | Semester | Name | Title |
|---|---|---|---|
| 148. | 2017/18s2 | Muhammad Shazwan Iskandar Bin Mohd Shakirin | Mechanical Design & Mechanics |
| 149. | 2018/19s2 | Ismail Fikri Bin Mohd Said | Design Of A Hybrid Sliding Mode Triboelectric And Electromagnetic Energy Harvester |
| 150. | 2018/19s2 | Mohammad Khairul Azwan Bin Azhar | Development Of A Hybrid Contact Mode Triboelectric And Electromagnetic Energy Harvester |
| 151. | 2019/20s1 | Noor Fatini Elea Binti Bashir | Smart Energy Reflexology Tile |