

Curriculum Vitae

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



Quality Assurance in Higher Education, Strategic QA in Higher Education, Woman Leadership

Energy harvesting technology, vibration control, structural dynamics, instrumentation, and product design

This publication is prepared by Hanim binti Salleh.

Copyright © 2024 by Hanim binti Salleh All rights reserved.

Curriculum Vitae,

Compilation of Background, Fellowship & Awards, Research & Publications, Networks,

Teaching and Supervision & Leadership & services .

Includes graphics and index.



Content

	Title	Page
1.	<i>Highlights</i>	3
2.	<i>Qualifications & Experience</i>	5
3.	<i>Expert Panel or Assessor</i>	7
4.	<i>Fellowship and Awards</i>	9
5.	<i>Publications</i>	13
6.	<i>Grants and IPs</i>	19
7.	<i>Postgraduates</i>	21
8.	<i>Undergraduates</i>	23



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

Director
Quality Advancement Centre
Universiti Tenaga Nasional (UNITEN)
Jalan IKRAM-UNITEN, 43000 Kajang Selangor Malaysia

Professor
Department of Mechanical Engineering
College of Engineering
Grade : Professor A, UT13A
UNITEN Staff No : 90010073
IC : 711113-01-5112

hanim@uniten.edu.my
Phone: +603-89287312
Mobile: +6019-2388032
Website: www.uniten.edu.my

Highlights

BACKGROUND

26 years of service in UNITEN. Expert in Quality Assurance, Strategic Management, Energy harvesting technology, vibration control, instrumentation, and product design.

QA Expert in Higher Education

- Subject Matter Expert for MQA Act Revision, MyREF (2024)
- MQA Expert panel for Development of ICQA (International Certified Officer in QA of HE) since 2023
- COQAHE (Certified Officer in QA of HE) Module, since 2019.
- Institutional Audit Assessor, SETARA & MyQUEST, MoHE national rating, Pre-audit Self-accreditation Institutional Assessor, 2018.
- MQA, ETAC, BEM panel programme assessor, External Examiner
- Invited speakers at national and international level, e.g MQA Trainer, ASEAN-QA Forum, AQAN SHARE program, public forum "Bicara Inspirasi".

FELLOWSHIP & AWARDS



"Leaders in Innovation Fellowship (LIF) Global"

Royal Academy of Engineering, UK 2022

- **ASEAN-QA, TrainQA**, Germany, 2021
- Won more than **30** local & international awards.
- **"Outstanding Innovation Award"**, MTE 2021
- **"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



RESEARCH AND PUBLICATION

75 Publications, **631** citations, **14** H-Index, **11** IPs, more than **RM2M** Grants & Consult.

NETWORKING



Ms. Danielle Heinecke as Australia High Commissioner to Malaysia. Mar 2024



High Tea with German Foreign Minister Annalena Baerbock, Jan 2024.

Selected engagement - MoHE, MQA, MQATC, MARA, MRSM, Jabatan Politeknik dan Kolej Komuniti, Malaysian Higher Education Institutions Quality Assurance Network (MyQAN), JAKIM, Selangor Government, Ministry of National Unity, Malaysia Rubber Board, Australia High Commission, German Embassy, University of Potsdam, ASEAN-QA Association, ASEAN University Network – QA, KAIST, NUS, NTU, Seoul National University, University of Potsdam, University of Southampton, Oxford University, University of Southern Queensland, Griffith University.

TEACHING & SUPERVISION

More than **5000** contact hours, **RM2M** Direct Revenue to University. Taught **11** courses, supervised more than **150** Undergraduates, **18** Postgraduates.

LEADERSHIP & OTHER SERVICES

- Senate member, Director, Deputy deans, Head of Department,
- Chairman, USDIC for Students Accommodation, Principal and Residen Kaunselor Ilmu,
- Founding & Council member Society of Vibration and Acoustic Malaysia,
- Deputy President, MyQAN,
- Chairperson, Self-Accrediting Universities MyQAN Subnetwork. Invited Speakers.
- Vice President, IKRAM.

more than **3000** hours of voluntary service. Social activists on wellbeing, women & technology,



2.

Academic

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

Positions

Year	Position	Place of Work
2016-2024	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 (IEPR) & 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 – 2009	Senior Lecturer	College of Engineering, UNITEN
1999 - 2007	Lecturer	College of Engineering, UNITEN
4 May 1998 – 1999	Assistant Lecturer	College of Engineering, UNITEN

Skills

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

Qualifications & Experience

University Level Services

- Senate Member 2018-2022
- Senate Member 2015-2018
- Senate Program assessment and accreditation, Chairperson, 2018-present
- Quality Council, member, 2016-present
- Student development committee, member, since 2006-2009
- Academic Quality Assurance Committee., member, 07-09
- ISO Internal Auditor, 2009-2013
- QE Kelompok internal Auditor
- Chairman of APA Auditor, 2013
- SCORUN committee, 2008-2009
- Panel anugerah kecemerlangan pelajar 2006-2013
- Orientation Advisory Committee, member, 2000
- Head (Pengetua) Kelompok ilmu 2006-2013
- Fellow (Residen felo) Kelompok Ilmu, Student Residential, 1999- 2002
- Advisor for Spiritual Bureau Advisor, Kelompok Ilmu, 1999-2002

Professionals and External Services

- Since 2019 Akademi Profesor Malaysia
Lifetime Member, MAPM0075
- Since 2018 Malaysian Higher Education Institutions Quality Assurance Network (MyQAN)
Deputy President
Chairman of Self-Accrediting Universities Subnetwork
- 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 & Lifetime member & committee
- Since 2004 Persatuan Saintis Muslim (PERINTIS)
Lifetime member
Board of Engineers Malaysia
- 1999 Registered member GE31188A



3.

International

1. Invited speaker as QA expert panel, 'Pathways to leadership roles in QA, Experiences and realities, Women in QA Forum, Bangkok, 2022, AQAN, SHARE project.
2. Panel discussant. Lessons Learnt from the Project –UNIQuE. TrainIQA Final Conference, Dec 2021. University of Potsdam, Germany and ASEAN-QA project.

National

1. Subject Matter Expert (SME) for MQA Act and provision study, MYREF CT PLT.13 Feb 2024.
2. Invited speaker, Quality and Higher Education Sustainability. UTM, south region and UNIMAS, Borneo Region. 2023
3. MQA Expert panel for Development of International Quality Assurance Officer Certified Module. 2023.
4. Lead assessor, Institutional Assessor for Self-accreditation Status Mock Audit, , IIUM, Jan 2023.
5. MQA trainer for GGP on Monitoring, Review and Continually Improving Institutional Quality. Since 2022.
6. MQA Reviewer Comitttee for Certified Officer In Quality Assurance Of Higher Education Programme Module – Tier 1. Since 2021.
7. MQA Expert panel for Development of Quality Assurance Officer Certified Module. Since 2019
8. MQA panel programme assessor, Mechanical and Agricultural Engineering – April 2015-Mar 2018, April 2021- Mar 2023, April 2024-Mar 2027.
9. Engineering Technology Accreditation Council , BEM, Programme accreditation panel. 2018
10. External Examiner Bachelor Mechanical Engineering Technology (Agricultural systems): UNIMAP, 2021-2022
11. Pre-audit Self-accreditation Institutional Assessor , UTM, 2018
12. SETARA MOHE national rating for universities and university colleges, Researcher and Institution Lead Assessor, 2017.
13. MyQUEST MOHE national rating for private colleges, Institution Assessor, 2017, 2018
14. Technology Park – TNB technology assessment panel – 2008



Women in QA Forum, Bangkok, 2022

Monday QASEANQA

13:35 – 14:35

PANEL DISCUSSION: LESSONS LEARNT FROM THE PROJECTS



SETARA Audit, 2017



CQA module developer & Trainer, MQA, 2022

Lead Assessor, Mock Institutional Audit, IIUM, 2023

Expert Panel or Assessor

Invention Judge / Adjudication

1. International Invention, Innovation & Technology Exhibition 2024, MINDS, Judge.
2. Negeri Sembilan International Exposition 2021 Competition (NSIEx 2021). 4 October 2021. UiTM, Negeri Sembilan – 8 inventions
3. International Invention, Innovation & Technology Exhibition 2021, MINDS, Judge – 10 inventions
4. International Invention, Innovation & Technology Exhibition 2019, MINDS, Judge – 14 inventions
5. International Invention, Innovation & Technology Exhibition 2018, MINDS, Judge – 16 inventions
6. International Invention, Innovation & Technology Exhibition 2018, MINDS, Judge – 12 inventions
7. International Invention, Innovation & Technology Exhibition 2017, MINDS, Judge – 16 inventions
8. International Invention, Innovation & Technology Exhibition 2016, MINDS, Judge – 16 inventions
9. International Invention, Innovation & Technology Exhibition 2015, MINDS, Judge – 18 inventions
10. International Invention, Innovation & Technology Exhibition 2014, MINDS, Judge – 18 inventions
11. International Invention, Innovation & Technology Exhibition 2013, MINDS, Judge – 22 Taiwanese Inventions
12. 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, 5 PhD
3. ICSSA2015 (2015 International Conference on Smart Sensors and Application). Review 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.



4.



Media coverage on Research work and awards.



“Leaders in Innovation Fellowship (LIF) Global, 2022”

- Feb 2024** Merit Award, in the Malaysia Technology Expo (MTE) 2023. “Biobased Triboelectric Nanogenerator (B-TENG) Using Sliding Mode For Low Power Sensor Node”.
- Feb 2022** Leaders in Innovation Fellowship (LIF Global) 2022, the Royal Academy of Engineering, United Kingdom.
ASEAN-QA , TrainIQA. University of Potsdam, Germany, ASEAN Quality Assurance Network (AQAN), ASEAN University Network (AUN), German Academic Exchange Service (DAAD), European Association for Quality Assurance in Higher Education, (ENQA), German Rectors’ Conference (HRK), SEAMEO Regional Centre for Higher Education and Development (RI-HED).
- Dec 2021** Bronze medal award. Seoul International Invention Fair 2021. “Flexible Nanogenerator Utilising Organic-Based Triboelectric Layer For Self-Powered Wireless Sensor Nodes”.
- Oct 2021** Outstanding Innovation Award in the Malaysia Technology Expo (MTE) 2021. “An Eco-based Energy Harvester (EHEH) for Ultra low power Wireless Sensor Nodes.”
- Oct 2021** Gold medal award in the Malaysia Technology Expo (MTE) 2021. “An Eco-based Energy Harvester (EHEH) for Ultra low power Wireless Sensor Nodes.”
- Mar 2021** Silver Award, Cantilever Bio-Based Hybrid Energy Harvester (CBBH-TENG), 48th International Exhibition of Inventions Geneva

Fellowship and Awards

- Nov 2020** Gold medal award in the ", International Invention, Innovation & Technology Exhibition 2020. "Flexible Hybrid Nanogenerator For lot Application Utilising Natural Rubber Triboelectric Layer".
- Sept 2019** Award: Gold Medal. "Flexible Hybrid Triboelectric Energy Harvester (FHTEH) for Smart Electronics Devices", Pecipta19.
- May 2018** Award: Gold Medal. "Triboelectric Hybrid Vibration-Based Generator for Android application condition Monitoring system", International Invention, Innovation & Technology Exhibition 2018.
- Dec 2016** Award: Silver Medal "Novel Hybrid Vibration-Based Generator for Android application condition Monitoring system" International Seoul International Invention Fair.
- Apr 2016** Award: Gold Medal. "Novel Hybrid Vibration-Based Generator for Android application condition Monitoring system", International engineering Invention & Innovation Exhibition (i-Envex)
- 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".
- May 2014** Award: 2. Gold Medal .International Invention, Innovation & Technology Exhibition 2014, "Technical Engineering Vocabulary Assessment (TEVA)".
- May 2014** Award: Silver Medal .International Invention, Innovation & Technology Exhibition 2014, "V-Gen II: Low frequency Vibration-Based Energy Harvester Enhancement Using Green Material".
- Dec 2012** Award: Gold and Special Award, KOREA International Women's Invention Exposition (KIWIE), Seoul, Korea, "RF Energy Harvesting System
- Dec 2012** Award: "Invention for Women Order of Merit", individual category, World Inventor Award Festival, Seoul , Korea.
- 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"
- Sep 2012** Award: Silver Medal, KOREA International Women's Invention Exposition (KIWIE) 2012 in Seoul, Korea "Incomplete spinal cord injury (SCI) physiotherapy"

Jul 2012	Award: Anugerah Tokoh Akademik 2012 (The Grand Academic Award 2012), UNITEN.
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
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
May 2011	Award: Silver Medal "Physiotherapy Device To Assist Spinal Cord Injury (Sci) Patients" International Invention, Innovation & Technology Exhibition 2011
Feb 2011	Award: Gold Medal . "Inertial Broadband Micropower Generator For Perpetual Powered Wireless Sensor Node" . Malaysia Technology Expo 2011
Feb 2011	Award: Silver Medal. "MEMS Piezoelectric Energy Harvester for Wireless Condition Monitoring" . Malaysia Technology Expo 2011
Feb 2011	Award: Bronze Medal. "MEMS Flat Spiral Spring Electromagnetic Energy Harvester For Self Powered Sensor" . Malaysia Technology Expo 2011
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"
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" .
May 2010	Award: Bronze Medal . "Simulation on MEMS Piezoelectric Energy Harvester" ,International Islamic University Malaysia Research Innovation and Exhibition (IRIE 2010)
Feb 2010	Award: Bronze Medal . Malaysia Technology Exhibition, "MEMS Piezoelectric Energy Harvester for Wireless Condition Monitoring"
Oct 2009	Award: Selected Showcase Product, Persidangan Kebangsaan IKS Bumiputera, 2009

Jul 2009

Award: Best Research Award, UNITEN

May 2009

Award: Gold Medal International Invention, Innovation & Technology Exhibition, (ITEX 2009) ESCAB II

Nov 2008

Award: Silver medal, Eureka08, ESCABII. charging booth. EUREKA. Belgium

May 2008

Award: Gold Medal, ITEX 08, ESCAB 1. International, MINDS, Malaysia

May 2008

Award: Silver medal, ITEX 08, Smart Helmet

Jul 2006

Award: Best Teaching Award, 2006, UNITEN



Tokoh Akademik UNITEN, 2012



ESCABII. charging booth. EUREKA. Belgium, 2008



Outstanding and Gold Medal for invention titled-An Eco-Based Hybrid Energy Harvester (Eheh) For Ultra-Low Power Wireless Sensor Nodes during MTE SDG 2021



5.

1. L Muhamad, MA Saparin, H Salleh, Performance of a Piezoelectric Energy Harvester with Rubber Compound Modification, *Journal of Physics: Conference Series* 2721 (1), 012002. 2024. <https://doi.org/10.1088/1742-6596/2721/1/012002>
2. M. A. Saparin, H. Salleh, C. K. Hen and S. Kumar, "Comparison of Bio-Based Triboelectric Nanogenerator (B-TENG) Performance for Self-Powered Sensor Applications," 2023 3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), Tenerife, Canary Islands, Spain, 2023, pp. 1-6, <https://doi.org/10.1109/ICECCME57830.2023.10253340>.
3. SR Ganapathy, H Salleh, Performance comparison between dual cantilevered and touch based hybridized triboelectric harvesters, *Journal of Mechanical Engineering and Sciences* 15 (1), 7754-7761, DOI: <https://doi.org/10.15282/jmes.15.1.2021.11.0611>, March 2021.
4. SR Ganapathy, H Salleh, MKA Azhar, Design and optimisation of magnetically-tunable hybrid piezoelectric-triboelectric energy harvester, *Scientific Reports* 11 (1), 1-13, <https://doi.org/10.1038/s41598-021-83776-y>, Feb 2021.
5. HJ Chilabi, H Salleh, W Al-Ashtari, EE Supeni, LC Abdullah, AB As'arry , Rotational Piezoelectric Energy Harvesting: A Comprehensive Review on Excitation Elements, Designs, and Performances, *Energies* 2021, 14(11), 3098; <https://doi.org/10.3390/en14113098> . May 2021.
6. 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](https://doi.org/10.3390/en13010223). 2020.
7. N. H. H. A. Talib, H. Salleh, B. D. Youn, and M. S. M. Resali, *Comprehensive Review on Effective Strategies and Key Factors for High Performance Piezoelectric Energy Harvester at Low Frequency*, *IJAME*, vol. 16, no. 4, pp. 7181-7210, Dec. 2019. <https://doi.org/10.15282/ijame.16.4.2019.03.0537>
8. N. H. H. A. Talib, H. Salleh, and M. J. Brennan, *Orthogonal Piezoelectric Energy Harvester for Low Frequency Applications: Modeling and Experimental Validation*, *International Journal of Recent Technology and Engineering*, vol. 8, iss. 4, pp. 6268-6274, Nov. 2019. DOI:[10.35940/ijrte.D5106.118419](https://doi.org/10.35940/ijrte.D5106.118419)
9. 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](https://doi.org/10.35940/ijrte.D5101.118419). 2019.
10. 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](https://doi.org/10.35940/ijeat.A2662.109119). 2019.
11. 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](https://doi.org/10.3390/mi8070227).

Publications

12. 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. [ISSN : 1823-5514 ; 2550-164X](#).
13. 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. [ISSN: 1823-5514 ; 2550-164X](#) .
14. 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
15. 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.
16. 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).
17. 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.
18. 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.
19. Mun Heng Lam, Hanim Salleh: *PZT Piezoelectric Energy Harvester Enhancement Using Slotted Aluminium Beam*. Advanced Materials Research; vol. 1051. 2014.
20. 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.
21. Mohammed Dhia Salim, Hanim Salleh, Dhia Shaker Salim: *A low frequency tunable hybrid generator*. Microsystem Technologies 19(11). 2013.
22. 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.
23. 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.
24. 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

-
25. Marwan, Farrukh Nagi, K.S.M. Sahari, S. Hanim: *Robust Fuzzy MIMO Bang-Bang Controller for two Links Robot Manipulators*.
 26. 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).
 27. 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
 28. 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.
 29. 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.
 30. 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.
 31. 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.
 32. 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
 33. 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).
 34. 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.
 35. H. A. Mohammed, H. Salleh, M. Z. Yusoff: *Fast response surface temperature sensor for hypersonic vehicles*. Instruments and Experimental Techniques , 53(1). 2010.
 36. 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).
 37. 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.
 38. 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.

Publications

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.

6.

Grants

Nov 2020-Oct 2024	Characterisation of Bio-Based Triboelectric Nanogenerator (B-TENG) for Self-Powered Sensor Applications. FRGS. RM154,000.
May 2020-May 2021	Characterisation of a Biobased Triboelectric Nanogenerator (B-TENG) using Agricultural Waste. UNIIG. RM20,000.
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.

Intellectual Property

1. Characterisation of Bio-based Triboelectric Nanogenerator (B-TENG), Copyright LY2024W01175, 2024.
2. A Hybrid Energy Harvester . MY-190276 . UI2016704385. Utility Innovation., 2016
3. A High Energy Absorber Guardrail. MY-187752-A. UI2016700550. Utility Innovation., 2016
4. How Engineer Are You?, 05/2015, Copyright CRLY00003705
5. Durable 5DOF Animal RFID Eartag. PI 2015702540. Year: 08/2015
6. Multipurpose Ambulatory and Mobility Device. PI 2014700421. Year: 02/2014
7. A Leverage Device. Patent Pending. PI 2012700189. Year: 05/2012
8. Micropower Generator For Self Powered Sensor Node. Patent Pending PI 2010001987. Year: 10/2010
9. Head Gear incorporated with safety system, PI 20091933,. Year: 09/2009
10. Measuring Device, PI 20090534.. Year: 05/2009
11. Charging Device Filing Date .PI 20084344. Year: 10/2008

7.

Courses Taught

Mechanical Vibration, Numerical Methods for Engineers, Mechanics, Engineering Measurements & Lab, Modeling & Analysis of Dynamic Systems, Research Methodology, Dynamics, Thermodynamics, Renewable Energy, Noise and Vibration Control, Energy Sustainability

Postgraduate Supervision

Program	Status	Main	Co-Supervisor/Member
PhD	Graduated	3	1
	Ongoing	2	3
Master	Graduated	13	1
	Ongoing	-	-

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	Haider Chilabi	Master of Mechanical Engineering	Structure A (By Research)
6	Ahmad Rafiq Mohd Khairudin	Master of Electrical Engineering	Structure B (By Coursework & Research)
7	Nor Alhuda Mohammad Ishak	Master in Engineering Management	Structure C (By Coursework)
8	Nur Fadiyah Abdul Mutalib	Master of Electrical Engineering	Structure B (By Coursework & Research)

Postgraduates

No	Name	Program	Structure
9	Ahmed Basheer Gheni	Master of Mechanical Engineering	Structure B (By Coursework & Research)
10	Lam Mun Heng	Master of Mechanical Engineering	Structure A (By Research)
11	Linasuriani Binti Muhamad	Master of Mechanical Engineering	Structure A (By Research)
12	M Uphallee A/L Maniam	Master of Mechanical Engineering	Structure B (By Coursework & Research)
13	Mohammad Khairul Azwan Bin Azhar	Master of Mechanical Engineering	Structure A (By Research)
14	Mohd Sofwan Bin Mohd Resali	Master of Mechanical Engineering	Structure A (By Research)
15	Satish Rao A/L Ganapathy	Master of Mechanical Engineering	Structure A (By Research)
16	Mohannad Saleh Hammadi	Master of Mechanical Engineering	Structure B (By Coursework & Research)
17	Mohd Firdaus Bin Jaafar	Master of Mechanical Engineering	Structure B (By Coursework & Research)
18	Omar Mohammed Salman	Master of Mechanical Engineering	Structure B (By Coursework & Research)

Undegraduates

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
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	Vibration Based Micropower Generator For Power Plant Application
14	2008/9s1	Nurul Farhana Binti Yahya	Performance Of Building Integrated Photovoltaic (Bipv) Systems
15	2008/9s1	Siti Aishah Binti Rusdan	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
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	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	Large Egg Incubator For Poultry Application

Undergraduates

No.	Semester	Name	Title
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
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 Zakariah	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
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

No.	Semester	Name	Title
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 Bordeaux Mixture Fertilizer
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

Undergraduates

No.	Semester	Name	Title
76	2006/7s2	Muhammad Nurudin Bin Mohd Yusof	An Energy Scavenging Device For Automotive Application
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
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

No.	Semester	Name	Title
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
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 Sathiaselvan	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
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

Undergraduates

No.	Semester	Name	Title
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
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 Bordeaux 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
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

Scan for more information



linktr.ee/hanimsalleh

