



Azma Putra

Curriculum Vitae

EDUCATION

Ph.D Sound and Vibration

2005–2008 **Institute of Sound and Vibration Research (ISVR), University of Southampton, United Kingdom**

Thesis *Sound Radiation from Vibrating Perforated Plates.*

M.Sc Sound and Vibration Studies

2003–2005 **Institute of Sound and Vibration Research (ISVR), University of Southampton, United Kingdom**

Dissertation *The Effect of Direct-Field Contribution to An SEA Model of A Car Interior.*

B.Eng Engineering Physics

1997–2002 **Bandung Institute of Technology (ITB), Indonesia**

Project *On the Study of Heat Potential Energy From Large Diesel Engines for An Absorption Refrigeration System.*

PROFESSIONAL QUALIFICATION

2015–2025 **Certified Vibration Analyst, ISO 18436-2 Category III**

The Mobius Institute, Australia

2015-current **Apple Distinguished Educator (ADE)**

Apple Inc. USA

2018-current **Apple Professional Learning Specialist (APLS)**

Apple, Inc. (South Asia)

2020-current **Professional Technologist**

Malaysia Board of Technology (MBOT)

2021-current **Engineering Technologist**

Board of Engineers Malaysia (BEM)

2021-current **Master Trainer in Virtual Learning Environment Programme**

Ministry of Higher Education Malaysia

EMPLOYMENT

- Mac 2015–Now **Associate Professor**, *Universiti Teknikal Malaysia Melaka (UTeM)*, Malaysia
Taught subject: Mechanical Vibrations; Noise, Vibration and Harshness (NVH), Engineering Dynamics, Numerical Method, Engineering Control. **Teaching evaluation score >4.7 (out of 5.0) every semester**
Research interest: Vibration, Engineering Acoustics, Vibro-acoustics, Noise and Vibration Control, Structural Dynamics.
- Nov 2009–Mac 2015 **Senior Lecturer**, *Universiti Teknikal Malaysia Melaka (UTeM)*, Malaysia
Taught subject: Mechanical Vibrations; Noise, Vibration and Harshness (NVH). **Teaching evaluation score >4.7 (out of 5.0) every semester.**
Research interest: Vibration, Engineering Acoustics, Vibro-acoustics, Noise and Vibration Control, Structural Dynamics.
- June 2009–Sept 2009 **Research Fellow (Post Doctoral)**, *ISVR, University of Southampton*, UK
Vibro-Acoustics Project.
Application of micro-perforated structure as a noise barrier and sound absorber.
- Sept 2008–May 2009 **Research Fellow (Post Doctoral)**, *ISVR, University of Southampton*, UK
Structure Borne Sound Source-Statistical Energy Analysis (SuBSSEA) Project: The effect of uncertainty in the excitation on the vibration input power to a structure.
Collaboration project with University of Salford and University of Liverpool, UK.

ACADEMIC AWARDS

- Dec 2014 **UTeM Academic Awards 2013, Winner**, Journal Publications
- Mac 2016 **UTeM Academic Awards 2015, Winner**, Innovation in E-Learning
- Jul 2020 **UTeM Service Excellence Awards, For Year 2019**
- Aug 2020 **UTeM Academic Awards 2019, Winner**, Innovation in E-Learning, 2nd time

INTERNATIONAL ACTIVITIES

- March 2023–current **Journal Editorial Board, *Sound and Vibration***, Publisher: Tech Science Press, Indexing: WoS and Scopus
- September 2023 **Keynote Speaker, *8th International Conference on Mathematics: Pure, Applied and Computation–Lombok, Indonesia***, Modelling sound radiation of a vibrating panel using elementary source technique
- September 2021 **Invited Panelist, *SAE Noise and Vibration Conference–USA***, Acoustic absorbers from natural materials: Are they applicable for automotive applications?
- December 2020 **Keynote Speaker, *2nd International Conference on Innovation in Science and Technology–Semarang, Indonesia***, Utilising green sound absorber
- April 2018 **Visiting Scholar, *Unviersité de Lille, France***, Research collaboration on Statistical Energy Analysis (SEA) and natural sound absorbers
- October 2017 **Keynote Speaker, *The 7th AIC-ICMR on Science and Engineering***, Towards eco-friendly acoustics absorbers
- September 2016 **Invited Speaker, *Engineering Physics International Conference (EPIC), Bandung Indonesia***, Radiation efficiency of beam-stiffened plate: Experimental setup and preliminary results

TEACHING AND SHORT COURSE

- 2010–present **Mechanical Vibrations [BMCG 3233], Course coordinator**
Undergraduate. Every semester
- 2012–2016 **Dynamics and Mechanism [BMCG 1253], Numerical Method [BMCG 2452],
Engineering Control [BMCM 3733],**
Undergraduate
- 2010–2016 **Laboratory subjects**
Undergraduate
- 2019–present **Mechanics of Machine [DMCM 3732], Dynamics [DMCM 2713]**
Diploma
- 2019–present **Dynamics [BMCG 1213]**
Undergraduate
- 2014–present **Noise, Vibration and Harshness (NVH) [MMCA 5643], Master by Coursework**
Postgraduate
- 2019–present **Structural Dynamics [MMCV 5233], Master by Coursework**
Postgraduate
- February 2012 **LaTeX for scientific writing**, A two-day short course, **Trainer**
For UTeM Staff and Postgraduate students
- February 2013 **Fundamental of MATLAB**, A two-day short course: MATLAB Part I, **Trainer**
For UTeM Staff and Postgraduate students
- February 2014 **Advanced Numerical Calculation using MATLAB**, A two-day short course:
MATLAB Part II, **Trainer**
For UTeM Staff and Postgraduate students
- August 2015 **Fundamental of MATLAB**, A two-day short course, **Trainer**
For UTeM Staff
- August 2015 **LaTeX for writing beautiful scientific documents**, A two-day short course, **Trainer**
For UTeM Staff and Postgraduate students
- September 2015 **iBooks for Interactive Books and Reports**, **Trainer**
For UTeM Staff

SUPERVISION

Undergraduates

2010–present **Has supervised 65 students into completion and 2 on-going, Main Supervisor**

Postgraduates (by Research)

- Ph.D **Asem Alnabih**, *Study of quality of life due to environmental noise exposure*, **Main Supervisor**, (On-going)
- Ph.D **Fariza Noor Saari**, *Detecting machinery faults using 3D pattern recognition from vibration data*, **Main Supervisor**, (On-going)
- Ph.D **Dayang Hafizah Kassim**, *Kapok and coir fibers sound absorber*, **Main Supervisor**, (On-going)
- Ph.D **Nor Hisham Sulaiman**, *Potential kenaf core for acoustics and thermal conductivity applications*, **Co-Supervisor**, (On-going)
- Ph.D **Ali Ibrahim Mosa**, *MPP absorber with inhomogeneous pattern*, **Main Supervisor**, (Completed)
- Ph.D **Mohd Azli Salim**, *Dynamic analysis of a laminated rubber-metal spring for high frequency vibration isolation*, **Main Supervisor**, (Completed)
- M.Sc **Esraa Jamil**, *Performance of MPP absorber modelled with COMSOL*, **Main Supervisor**, (On-going, Viva-Voce on 22 April 2021)
- M.Sc **Norzailan Azahari**, *Modelling transmission loss of weather strip in car door*, **Main Supervisor**, (Completed)
- M.Sc **Muhammad Harith Mustaffer**, *Characterisation of a Wideband Nonlinear Dynamic Vibration Absorber*, **Co-Supervisor**, (On-going)
- M.Sc **Siti Norfarizan Jamaluddin**, *Dynamic analysis of a laminated rubber-metal spring*, **Main Supervisor**, (Viva done, correcting thesis)
- M.Sc **Ahmad Yusuf Ismail**, *Modelling of sound transmission loss for a micro-perforated system to control mass-air mass resonance in a double-leaf partition*, **Main Supervisor**, (Completed)
- M.Sc **Yasseer Abdullah**, *Development of sustainable sound absorbers from dried paddy straw and sugarcane natural waste fibers*, **Main Supervisor**, (Completed)
- M.Sc **Al Munawir**, *A new Statistical Energy Analysis (SEA) model for predicting car interior noise*, **Main Supervisor**, (Completed)
- M.Sc **Sajidin Py**, *Hybrid microperforated panel and natural waste fibres as eco-friendly sound absorber and noise barrier*, **Main Supervisor**, (Completed)
- M.Sc **Noor Fariza Saari**, *Characterization of structure-borne sound sources*, **Main Supervisor**, (Completed)
- M.Sc **Dayang Hafizah Kassim**, *A complete study on improving the acoustical performance of Sayyidina Abu Bakar Mosque*, **Main Supervisor**, (Completed)
- M.Sc **Nurain Shyafina Abd Latif**, *Development of mathematical model of sound radiation from vibrating perforated panel using discrete source*, **Main Supervisor**, (Completed)

- M.Sc **Cheah Yee Mun**, *Modelling structure-borne vibration transmission in building*, **Main Supervisor, (Completed)**
- M.Sc **Or Khai Hee**, *On studying the acoustical properties of palm fruit bunch fibers*, **Main Supervisor, (Completed)**
- M.Sc **Fazlin Abd Khair**, *Bamboo and reed as non-fibrous acoustic absorber*, **Main Supervisor, (Completed)**
- M.Sc **Khalis Suhaimi**, *Modeling of vibration based energy harvesting from human body motion*, **Co-Supervisor, (Completed)**
- M.Sc **Sidik Susilo**, *On harvesting energy from ambient noise utilizing flexural vibration of a flexible panel*, **Main Supervisor, (Completed)**
- M.Sc **Lim Zhi Ying**, *Acoustical performance of hybrid coir-kenaf fibers*, **Main Supervisor, (Completed)**
- M.Sc **Lim Kah Hei**, *Modelling sound radiation from beam-stiffened and shallow curved panels*, **Main Supervisor, (Completed)**

RESEARCH GRANT

INTERNATIONAL

Analysis of Autonomous Collision Avoidance in Emergency Lane Change Considering Vehicle in the Neighboring Lane, *ASEAN NCAP Collaborative Holistic Research (ANCHOR)*, 2020-2021, RM 15,000 (**Co-Researcher**)

NATIONAL

1. **Investigation on the use of micro-perforated panel to control mass-air-mass resonance in a double-leaf partition**, *Fundamental Research Grant Scheme (FRGS)*, 2010-2012, RM 24,000 (**Project Leader**)
Completed
2. **A new SEA Model for predicting car interior noise**, *Fundamental Research Grant Scheme (FRGS)*, 2010-2012, RM 43,000 (**Project Leader**)
Completed
3. **Towards a self-powered navigation buoy using vibration based energy harvesting concept from ocean wave motion**, *Exploratory Research Grant Scheme (ERGS)*, 2012-2014, RM 50,000 (**Co-Researcher**)
Completed
4. **Modelling the acoustic performance of a hybrid micro-perforated panel-natural waste fibre as an eco-friendly sound absorber and noise barrier**, *Fundamental Research Grant Scheme (FRGS)*, 2010-2012, RM 68,000 (**Co-Researcher**)
Completed
5. **Investigation on the vibration input power from structure-borne sound sources**, *Fundamental Research Grant Scheme (FRGS)*, 2010-2012, RM 47,000 (**Project Leader**)
Completed

6. **Modeling of vibration based energy harvesting from human body motion**, *Fundamental Research Grant Scheme (FRGS)*, 2010-2012, RM 47,300 (**Co-Researcher**)
Completed
7. **On harvesting energy mechanism from ambient noise utilizing flexural vibration of a flexible panel**, *Research Acculturation Collaborative Effort (RACE)*, 2012-2014, RM 49,800 (**Project Leader**)
Completed
8. **On studying the acoustic performance of natural materials with hollow structure as alternative green sound absorbers**, *Exploratory Research Grant Scheme (ERGS)*, 2012-2014, RM 68,450 (**Project Leader**)
Completed
9. **Fabrication and physico-mechanical analysis of new natural rubber foam filled waste spent tea leave composite for sound absorption**, *Fundamental Research Grant Scheme (FRGS)*, 2014-2016, RM 98,800 (**Co-Researcher**)
10. **Modeling of structure-brone noise and vibration transmission in building using portal frame and flat plate approach**, *Fundamental Research Grant Scheme (FRGS)*, 2014-2016, RM 90,700 (**Project Leader**)
Completed
11. **Sustainable acoustic absorber from natural fibers**, *Prototype Research Grant Scheme (PRGS)*, 2014-2016, RM 170,000 (**Project Leader**)
12. **Effects of stiffness non-linearity on the electromechanical coupling of a vibration based energy harvesting device**, *Fundamental Research Grant Scheme (FRGS)*, 2013-2015, RM 90,000 (**Co-Researcher**)
13. **Study of turbulence characteristics of an oscillatory flow conditions in thermoacoustics using experimentally validated two-equations turbulence model**, *Fundamental Research Grant Scheme (FRGS)*, 2014-2016, RM 135,700 (**Co-Researcher**)
14. **A Modelling of Artificial Neural Network to Predict the Output Power of Automotive Exhaust Waste Heat Recovery Using Steam Turbine Mechanism**, *Fundamental Research Grant Scheme (FRGS)*, 2014-2016, RM 78,100 (**Co-Researcher**)
15. **Fabrication and physico-mechanical analysis of new natural rubber foam filled waste spent tea leave composite for sound absorption.**, *Fundamental Research Grant Scheme (FRGS)*, 2014-2016, RM 98,000 (**Co-Researcher**)
16. **Fabrication and Physico-Properties of Pineapple Fiber Reinforced Polypropylene and Starch as Biodegradable Composite Material**, *Fundamental Research Grant Scheme (FRGS)*, 2014-2016, RM 138,200 (**Co-Researcher**)
17. **New model of reverberation time using Statistical Energy Analysis (SEA)**, *Fundamental Research Grant Scheme (FRGS)*, 2016-2018, RM 89,200 (**Project Leader**)

18. **Characterisation of a wideband non-linear dynamic vibration absorber (DVA) for suppressing structural vibration using a cantilever beam constrained by curved blocks**, *Fundamental Research Grant Scheme (FRGS)*, 2016-2018, RM 78,600 (Co-Researcher)
19. **High impact self-sustain battery-less emergency warning system with wireless control capability as a sustainable urban human traffic control system**, *Prototype Research Grant Scheme (PRGS)*, 2016-2018, RM 120,790 (Co-Researcher)
20. **Correlation of design parameters of lightweight lattice structures on vibration characteristics and mechanical strength for high efficiency isolator**, *Fundamental Research Grant Scheme (FRGS)*, 2018-2021, RM 115,500 (Co-Researcher)
21. **Modelling and analysis of 3D data pattern recognition for fault detection in rotating machinery using statistical analysis based method**, *Fundamental Research Grant Scheme (FRGS)*, 2020-2022, RM 61,000 (Project leader)
22. **Wireless HEV Engine diagnostic using state of the art machine learning-based signal analysis Z-freq**, *Fundamental Research Grant Scheme (FRGS)*, 2018-2021, RM 126,400 (Co-Researcher)
23. **In-situ analysis of corrosion formation mechanism of steel in chloride-rich atmospheres using stress wave and auto-regressive algorithm**, *Fundamental Research Grant Scheme (FRGS)*, 2020-2022, RM 84,100 (Co-Researcher)

UTeM (Internal Grant)

1. **Construction of low cost impedance tubes to measure sound absorption coefficient and sound transmission loss**, *Short Term Grant*, 2010-2011, RM 18,000 (Project Leader)
Completed
2. **Development of a small scale vehicle dynamics test bed**, *Short Term Grant*, 2010-2011, RM 20,000 (Co-Researcher)
Completed
3. **Investigation on the acoustic properties of a micro-perforated double-leaf partition filled with natural waste fibrous material**, *Short Term Grant*, 2010-2011, RM 24,000 (Co-Researcher)
Completed
4. **Modelling automotive Noise, Vibration and Harshness (NVH) using hybrid Finite Element Method and Statistical Energy Analysis**, *Short Term Grant*, 2010-2011, RM 24,000 (Co-Researcher)
Completed
5. **A complete study on improving the acoustical performance of Masjid Sayyidina Abu Bakar UTeM**, *Short Term Grant*, 2012-2013, RM 23,000 (Project Leader)
6. **Research and development of green acoustical absorber for Masjid Sayyidina Abu Bakar UTeM**, *Short Term Grant*, 2012-2013, RM 27,000 (Co-Researcher)
7. **Dynamic analysis of laminated rubber metal spring for high rise structure**, *Short Term Grant*, 2012-2013, RM 15,000 (Co-Researcher)

8. **Development of mathematical model of sound radiation from vibrating perforated panel using discrete source, *Short Term Grant*, 2012-2013, RM 15,450 (Co-Researcher)**
9. **Development of a novel high frequency vibration transmission test rig on laminated rubber-metal spring for automotive suspension system, *Short Term Grant*, 2013-2014, RM 19,200 (Co-Researcher)**
10. **Prototype of hybrid rubber-metal isolator for automotive engine, *Short Term Grant*, 2014-2015, RM 17,500 (Co-Researcher)**
11. **Modelling transmission loss of weather strip in car door, *Seed Money Grant*, 2016-2017, RM 20,000 (Co-Researcher)**
Collaboration Project with Proton Sdn. Bhd
12. **A preliminary study on the potential of Kenaf core as automotive interior component, *Seed Money Grant*, 2016-2017, RM 20,000 (Co-Researcher)**
Collaboration Project with Proton Sdn. Bhd
13. **Determination of damping properties of composite for automotive components, *Seed Money Grant*, 2016-2017, RM 20,000 (Co-Researcher)**
Collaboration Project with Proton Sdn. Bhd
14. **Hybrid vehicle engine monitoring using piezzo-film sensors and analyzing with Z-freq technique, *Short Term Grant*, 2018-2019, RM 20,000 (Co-Researcher)**

PUBLICATIONS

H-index = 20

i10-index = 43

Citations \geq 2054

(Based on Google Scholar, per 13 March 2024)

H-index = 19

Citations \geq 1492

(Based on Scopus per 13 March 2024)

CHAPTER IN BOOK

A. Putra, T. Oliveira, M. Souli, Dg. H. Kassim, Multiphysics Simulations in Automotive and Aerospace Applications, *In: Moatamedi M., Rahulan T., Khawaja H. (eds) Characterizing and modeling of acoustical performance of natural sound absorber. Elsevier*, pp. 49-61. 2021. ISBN: 978-0-12-817899-7

A. Putra, I. Prasetyo, M.Z. Selamat, Green Acoustic Absorber from Pineapple Leaf Fibers, *In: Jawaid M., Asim M., Tahir P., Nasir M. (eds) Pineapple Leaf Fibers. Green Energy and Technology. Springer*, pp. 143-165. 2020. ISBN: 978-981-15-1416-6. <https://doi.org/10.1007/978-981-15-1416-6-8>

Indexing: **Scopus**

M.A. Salim, A. Putra, A.M. Saad, Characteristics of Non-Dispersive Finite Rod for Laminated Rubber-Metal Spring, *In Reference Module in Materials Science and Materials Engineering*. Elsevier. <https://doi.org/10.1016/B978-0-12-803581-8.11355-4>

Indexing: **Scopus**

Indexed ARTICLES by Clarivate (WoS)

A.M.H.S. Lubis, A. Putra, A.S.H.M. Yassir, Irianto, and S.G. Herawan, Structural and acoustical performances of oil palm trunk waste–Elastomeric thermoplastic polyurethane composite, *Heliyon*, vol. 10, e26426, 2024. <https://doi.org/10.1016/j.heliyon.2024.e26426>

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 4.1)

N.F. Saari, A. Putra, Irianto, R.M. Dan, M.A. Zeli, R. Ramlan, N.A.A. Jalil, and S. Herawan, Estimating natural frequency of pipe with various geometries: Improvement of frequency factors, *Heliyon*, vol. 10, e26148, 2024. <https://doi.org/10.1016/j.heliyon.2024.e26148>

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 4.1)

S.N. Shah, S. Beddu, S.P. Yap, A. Putra, M.N. Othman, C.W. Yuen, K.H. Mo, Physical, strength and acoustic properties of lightweight cement composite with preplaced chemically-treated crumb rubber, *Case Studies in Construction Materials*, Vol. 20, e02821, 2024. <https://doi.org/10.1016/j.cscm.2023.e02821>

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 6.2)

M. Mohammadi, E. Taban, W.H. Tan, N.B.C. Din, A. Putra, U. Berardi, Recent progress in natural fiber reinforced composite as sound absorber material, *Journal of Building Engineering*, 84, 108514, 2024. <https://doi.org/10.1016/j.jobe.2024.108514>

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 6.4)

A. Rino, I. Praseityo, D.R. Andhika, B. Sunendar, A. Putra, Development of porous composite ceramic with sugarcane fiber filler for sound absorber materials, *Building Acoustics* 2023, 0(0). <https://doi.org/10.1177/1351010X231209609>

(Publisher: Sage. Indexing: **Clarivate (WoS)**. Impact Factor: 1.7)

Dg. H. Kassim, A. Putra, R. Ramlan, Enhancement of sound absorption of coir fiber using thin layer of kapok fibers, *Journal of Natural Fibers* 2023, 20, 1. <https://doi.org/10.1080/15440478.2022.2164103>

(Publisher: Taylor & Francis. Indexing: **Clarivate (WoS)**. Impact Factor: 3.507. ISSN: 1544-046X)

Gunawan, I. Prasetyo, B. Yulianto, A. Putra, Irianto, Investigation on Minute Holes of Woven Fabrics for Wide-Band Micro-Perforated Sound Absorbers, *Buildings* 2023, 13, 663. <https://doi.org/10.3390/buildings13030663>

(Publisher: MDPI. Indexing: **Clarivate (WoS)**. Impact Factor: 3.32. ISSN: 2075-5309)

V. Sekar, S. Palaniyappan, S.Y.E. Noum, A. Putra, S. Sivanesan, D.D.C.V. Sheng, Acoustic absorber made of wood fiber composite developed by compression molding and additive manufacturing, *Wood Research*, 68(1), pp. 68–82, 2023. <https://doi.org/10.37763/wr.1336-4561/68.1.6882>

(Indexing: **Clarivate (WoS)**)

T.H. Tan, S.N. Shah, C.C. Ng, A. Putra, M.N. Othman, K.H. Mo, Insulating foamed lightweight cementitious composite with co-addition of micro-sized aerogel and hydrogen peroxide, *Construction and Building Materials*, Vol. 360, 129485, 2022. <https://doi.org/10.1016/j.conbuildmat.2022.129485>

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 7.69. ISSN: 0950-0618)

A. Putra, M.N. Othman, T. Oliveira, M. Souli, D.H. Kassim, Irianto, S. Herawan, Waste Durian Husk Fibers as Natural Sound Absorber: Performance and Acoustic Characterization, *Buildings* 2022, 12, 1112. <https://doi.org/10.3390/buildings12081112>

(Publisher: MDPI. Indexing: **Clarivate (WoS)**. Impact Factor: 3.32. ISSN: 2075-5309)

M.S. Azmi, R. Ismail, A. Putra, Correlation of design parameters of lattice structure for highly tuneable vibration isolator, *Journal of Vibration and Control*, 2022. <https://doi.org/10.1177/10775463211070069>

(Publisher: SAGE Journals. Indexing: **Clarivate (WoS)**)

V. Sekar, S.Y.E. Noum, A. Putra, S. Sivanesan, K.C. Chin, Y.S. Wong, D.H. Kassim, Acoustic Properties of Micro-Perforated Panels Made from Oil Palm Empty Fruit Bunch Fiber Reinforced Polylactic Acid, *Sound and Vibration*, 2021. <https://DOI: 10.32604/sv.2021.014916>

(Publisher: Tech Science Press. Indexing: **Clarivate (WoS)**. ISSN: 1541-0161)

A. Munawir, A. Putra, I. Prasetyo, and W.M.F.W. Mohamad, Corrected statistical energy analysis model in a non-reverberant acoustic space, *Sound and Vibration*, Vol. 55(3), pp. 203-219, 2021

(Publisher: Tech Press Science. Indexing: **Clarivate (WoS)**. ISSN: 1541-0161)

G.W. Leong, T.Z. Chin, K.H. Mo, Z. Ibrahim, A. Putra, M.N. Othman, Incorporation of crumb rubber and air-entraining agent in ultra-lightweight cementitious composite: Evaluation of mechanical and acoustic properties, *Journal of Building Engineering*, Vol. 42, 103034, 2021. <https://doi.org/10.1016/j.jobbe.2021.103034>

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 2.38. ISSN: 2352-7102)

V. Sekar, S.Y.E. Noum, S. Sivanesan, A. Putra, D.D.C.V. Sheng, D.H. Kassim, Effect of Thickness and Infill Density on Acoustic Performance of 3D Printed Panels made of Natural Fiber Reinforced Composites, *Journal of Natural Fibers*, 2021. <https://doi.org/10.1080/15440478.2021.1944426>

(Publisher: Taylor and Francis. Indexing: **Clarivate (WoS)**. Impact Factor: 5.3. ISSN: 1544-046X)

D.D. Abdi, M. Monazzam, E. Taban, A. Putra, F. Golbabaie, M. Khadem, Sound absorption performance of natural fiber composite from chrome shave and coffee silver skin, *Applied Acoustics*, Vol. 182, 108264, 2021

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 2.6. <https://doi.org/10.1016/j.apacoust.2021.108264>)

S.N. Shah, K.H. Mo, S.P. Yap, A. Putra, M.N. Othman, Assessment of lightweight recycled crumb rubber-cement composite produced by preplaced method, *Advances in Concrete Construction*, Vol. 11(5), 2021

(Publisher: Techno-Press, Ltd. Indexing: **Clarivate (WoS)**. Impact Factor: 2.4. DOI: <https://doi.org/10.12989/acc.2021.11.5.409>)

E. Taban, P. Soltani, U. Berardi, A. Putra, A.J. Jafari, S.M. Mousavi, M. Faridan, S.E. Samaei, A. Khavanin, Measurement, modeling, and optimization of sound absorption performance of Kenaf fibers for building applications, *Building and Environment*, Vol. 180, 2020

(Publisher: ELSEVIER. Indexing: **Clarivate (WoS)**. Impact Factor: 4.8. <https://doi.org/10.1016/j.buildenv.2020.107087>)

M.H. Mustaffer, R. Ramlan, M.N.A. Rahman, A. Putra, Experimental characterization and performance of dynamic vibration absorber with tunable piecewise linear stiffness, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Vol. 42(355), 2020. <https://doi.org/10.1007/s40430-020-02435-x>

(Publisher: Springer. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 1.75. ISSN:)

T.S. Tie, K.H. Mo, A. Putra, S.C. Loo, U.J. Alengaram, T.-C. Ling, Sound absorption performance of modified concrete: A review, *Journal of Building Engineering*, Vol. 30, July 2020. <https://doi.org/10.1016/j.job.2020.101219>

(Publisher: ELSEVIER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 2.38. ISSN: 2352-7102)

A.I. Mosa, A. Putra, R. Ramlan, A.A. Esraa, Absorption Coefficient of a Double-Layer Inhomogeneous Micro-perforated Panel Backed with Multiple Cavity Depths, *Acoustics Australia*, 2020. <https://doi.org/10.1007/s40857-020-00176-4>

(Publisher: SPRINGER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 0.6. ISSN: 1839-2571)

A.I. Mosa, A. Putra, R. Ramlan, A.A. Esraa, Wideband sound absorption of a double-layer microperforated panel with inhomogeneous perforation, *Applied Acoustics*, Vol. 161, 2020. <https://doi.org/10.1016/j.apacoust.2019.107167>

(Publisher: ELSEVIER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 1.068. ISSN: 0003-682X)

I. Prasetyo, E. Muqowi, A. Putra, M. Novenbrianty, G. Dasendra, D.R. Adhika, Modelling Sound Absorption of Tunable Double Layer Woven Fabrics, *Applied Acoustics*, Vol. 157, 2020 doi: <https://doi.org/10.1016/j.apacoust.2019.107008>

(Publisher: ELSEVIER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 1.2. ISSN: 0003-682X)

E. Taban, A. Khavanin, A. Ohadi, A. Putra, A.J. Jafari, M. Faridan, A. Soleimanian, Study on the acoustic characteristics of natural date palm fibres: Experimental and theoretical approaches, *Building and Environment*, Vol. 161, 2019

(Publisher: ELSEVIER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 4.8. <https://doi.org/10.1016/j.buildenv.2019.106274>)

A.I. Mosa, A. Putra, R. Ramlan, I. Prasetyo, A.A. Esraa, Theoretical model of absorption coefficient of an inhomogeneous MPP absorber with multi-cavity depths, *Applied Acoustics*, Vol. 146 pp. 409-419, 2019

(Publisher: ELSEVIER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 1.068. ISSN: 0003-682X)

- A. Putra, K.H. Or, M. Z. Selamat, M.J.M. Nor, M.H. Hassan, I. Prasetyo**, Sound absorption of extracted pineapple-leaf fibres, *Applied Acoustics*, Vol. 136, pp. 9-15, 2018
(Publisher: ELSEVIER. Indexing: **Thomson Reuters (WoS)**. Impact Factor: 1.068. ISSN: 0003-682X)
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DIGITAL LEARNING CONTENTS

- 2016-current **Mechanical Vibration in ULearn (MOODLE Platform):**
Learning content for UTeM students for blended learning throughout the semester,
This is used as the main source for the flipped learning and collaborative learning.
- 2019-current **Mechanics of Machine in ULearn (MOODLE Platform):**
Learning content for UTeM students for blended learning throughout the semester,
This is used as the main source for the flipped learning and collaborative learning.
- 2017-current **Mechanical Vibration MOOC (OpenLearning Platform):**
Learning content in Massive Open Online Course (MOOC) for UTeM students and all learners across the world for blended learning and social learning,
This is also used as the main source for the flipped learning and collaborative learning.
- 2019-current **Mechanical Vibration OCW (OCW UTeM):**
Learning content as the Open Course Ware (OCW) for UTeM students for blended learning throughout the semester,
This is used as the main source for the flipped learning and collaborative learning.
- 2020 **Mechanical Vibration Apple Book:**
Interactive digital book (with HTML animation, videos, other widgets) as learning content for subject Mechanical Vibration,
e-ISBN is in process.

Others

- 2013-present **Journal of Mechanical Engineering and Technology (JMET),** *Editorial Board*
- 2020-present **International Journal of Occupation and Health (IJOH),** *Editorial Board*
- 2015-present **Applied Acoustics, Elsevier,** *Reviewer*

Projects conducted as Vibration Analyst Category III

- March-April 2021 **MALAKOFF Power Sdn Bhd, Malaysia:**
Vibration Analysis on electric motor, Vibration measurement and analysis on an electric motor coupled with a pump. The analysis includes Operating Deflection Shape (ODS)
- Sept 2020-Feb 2021 **PETRONAS Technical Services Sdn Bhd, Malaysia:**
Development of Piping Vibration Quick Solutions,
Developing technical guidance on quick vibration solution based on the sources of vibration in a piping system in oil and gas platform.
- Nov 2020-March 2021 **PETRONAS Technical Services Sdn Bhd, Malaysia:**
Vibration Damper Analysis and Testing For Re-Gasification Terminal Sungai Udang (RGTSU) Melaka,
Analysis on the effectiveness of a highly visco-damper for solving high piping vibration in a particular oil platform.
- July 2019 **INTEKMA Engineering and Services Sdn Bhd, Melaka, Malaysia:**
Trainer-Mobius Certification Vibration Analysis Category III,
As a trainer in vibration training for Mobius certification category III.
- February 2019 **Melaka Refinery Company Sdn Bhd (PETRONAS), Melaka, Malaysia:**
Analysis of piping vibration using Operating Deflection Shape (ODS),
Measurement and analysis of vibration behaviour of engineering piping system using ODS technique.
- December 2018 **Melaka Refinery Company Sdn Bhd (PETRONAS), Melaka, Malaysia:**
Assessment of piping vibration,
Measurement and analysis of vibration of engineering piping system.
- December 2018 **INTEKMA Engineering and Services Sdn Bhd, Melaka, Malaysia:**
Trainer-Mobius Certification Vibration Analysis Category III,
As a trainer in vibration training for Mobius certification category III.
- March 2018 **JIMAH Power, Port Dickson, Malaysia:**
Vibration analysis of motor fan unit,
Measurement and analysis of high vibration at motor fan unit.
- January 2018 **Melaka Refinery Company Sdn Bhd (PETRONAS), Melaka, Malaysia:**
Vibration analysis of Sulphur Recovery Unit,
Measurement and analysis of high vibration of the SRU burner.
- 14-18 Nov 2016 **Basrim Sdn Bhd, Kuala Lumpur, Malaysia:**
Vibration Analysis: Machinery Inspection and Evaluation,
Short course on machinery vibrations.
- July 2015 **PETRONAS IPC Kerteh, Kerteh, Terengganu, Malaysia:**
Vibration analysis on main oil pump unit.,
Vibration measurement and analysis to detect root cause on a main oil pump unit having high vibration amplitude during normal operation.

- Aug 2015 **MALAKOFF Power Sdn Bhd, Tanjung Bin, Johor, Malaysia:**
Operating Deflection Shape on Motor-Gear Box system,
Operating Deflection Shape (ODS) measurement and simulation to observe the vibration behaviour of motor-gearbox system running coal fuel on a conveyer.
- July 2012–2015 **PETRONAS Liquid Natural Gas (LNG), Bintulu, Sarawak, Malaysia:**
Assessment of vibration in plant piping system,
Measurement of vibration levels of pipelines and categorize them into: 'acceptable', 'concern' and 'problem' followed by analysis and proposed solutions.
- Projects and Programme conducted as Apple Professional Learning Specialist and Apple Distinguished Educator**
- Sept 2021 **Alam Synergy Teknik Sdn Bhd (Online Workshop):**
Onboarding Program Cerdik Yayasan Petronas,
Workshop with B40 students across Malaysia on using iPad for learning
Speaker
- Sept 2021 **Alam Synergy Teknik Sdn Bhd & Universiti of Malaya (Online Workshop):**
AR for Educators: Immersive Augmented Reality for Educators with Reality Composer,
Hands on workshop on using Reality Composer app in iPad to develop AR
Speaker
- Dec 2020 **Centre for Academic Excellence and Scholarship, UTeM (Online Workshop),**
Webex:
Effective Project-Based Learning Design Based on SAMR Model with Apple Educators,
Talk on designing project-based learning using Apple learning environment
Speaker
- 2-3 Nov 2020 **Politeknik METrO, Pasir Gudang, Johor, Malaysia:**
Digital Learning and Digital Pitching Content,
Facilitating students on creating creative digital content for product pitching using iPad.
- 26-30 Sept 2020 **Malaysia Digital Economy Corporation (MDEC) (Online Workshop),**
Malaysia:
Animated Digital Story Telling using iPad. #MyDigitalMaker Virtual Fair 2020,
Series of webinars+competition. Coaching students on creating creative digital story telling using iPad.
Co-Organizer (Apple Professional Learning Malaysia) + Speaker
- 29-30 Sept & 5-7 Oct 2020 **Politeknik METrO, Johor Bahru, Malaysia:**
Development of e-Learning contents for Polytechnic using iPad,
Facilitating lecturers on creating creative digital content for e-Learning using iPad.
- 13-14 Sept 2020 **Universiti Kebangsaan Malaysia, Bangi, Malaysia:**
UKM student champions development workshop,
Facilitating selected UKM students on creating creative digital resume using iPad.

- June 2020 **ICT Committee, FKM UTeM (Online Workshop), Webex:**
Crafting Interactive Digital Content with Apple Educators,
 Coaching teachers creating small topic of learning content with iPad using AGILE framework. Certificate of Completion were issued for successful participants from Malaysia and Indonesia
 Organizer + Speaker
- 15-28 April 2020 **Apple Professional Learning Series (Online Workshop), Webex:**
iPad for online education during the Pandemic,
 Continuation of hands on workshop on creating content with iPad from 14 Apple learning experts
 Co-Organizer + Speaker
- 1-14 April 2020 **Apple Professional Learning Series (Online Workshop), Zoom+ Webex:**
Creating Learning Content using iPad,
 Hands on workshop on creating content with iPad from 14 Apple learning experts. Participants from across Malaysia, Singapore, Philippine and Indonesia
 Organizer + Speaker
- 3 March 2020 **Jabatan Pendidikan Negeri Johor, Johor Bahru, Malaysia:**
CAKNA Orang Asli: STEM workshop with iPad,
 Facilitating Orang Asli students creating short learning content using iPad.
- 31 Jan-2 Feb 2020 **Jabatan Pendidikan Negeri Johor, Johor Bahru, Malaysia:**
Everyone Can Create,
 Facilitating school teachers across Malaysia (esp. Negeri Johor) on creating animated learning contents using iPad.
- 8-10 Nov 2019 **Ministry of Education, Malaysia, Malaysia:**
School of Global Excellence (SGE): Student Learning Camp,
 Facilitating workshop on creating digital Apple Book through project-based learning using iPad for 100++ secondary school students from all SGE Schools Malaysia at Sekolah Tuanku Abdul Razak (STAR), Ipoh, Perak
- 20-22 Nov 2019 **MRSM Tun Ghafar Baba, Melaka, Malaysia:**
Everyone Can Create,
 Facilitating 3rd year secondary school students creating animated learning content of chosen topic.
- 27-29 Aug & 3-5 Sept 2019 **Ministry of Education, Malaysia, Melaka, Malaysia:**
School of Global Excellence (SGE): Upgrading professionalism and competency of teachers in the 21st century learning,
 Facilitating workshop on creating digital content using iPad for 40 secondary school teachers from all SGE schools Malaysia.
- 7-9 Sept & 31 Oct-2 Nov 2019 **MRSM Tun Ghazali Shafie, Kuala Lipis, Pahang, Malaysia:**
Student Learning Camp,
 Facilitating workshop on creating digital Apple Book through project-based learning using iPad for 2nd and 3rd year secondary school students.

- 10-12 Oct 2019 **Imtiaz Secondary Science School, Kuala Nerus Terengganu, Malaysia:**
Student Learning Camp,
Facilitating project-based challenge for 90 students from all Imtiaz Schools in Terengganu on Design Thinking through creating digital content using iPad.
- 10-12 Feb 2019 **Imtiaz Secondary Science School, Kuala Terengganu, Malaysia:**
Everyone Can Create: Innovation in Learning,
Facilitating workshop on creating interactive digital content with native apps in iPad.
- October 2018 **Ministry of Education, Malaysia, Gombak, Malaysia:**
School of Global Excellence (SGE): Student Learning Camp,
Facilitating workshop on creating digital Apple Book through project-based learning using iPad for 100++ secondary school students from all SGE Schools Malaysia.
- October 2018 **Ministry of Education, Malaysia, Puchong, Malaysia:**
School of Global Excellence: E-Learning Content Development,
Facilitating workshop on creating digital content using iPad for secondary school teachers in Malaysia.
- 3-5 Sept 2018 **Sultan Mahmud Secondary Science School, Kuala Terengganu, Malaysia:**
Digital Citizenship,
Coaching students on digital citizenship through digital activities and content creation using iPad.
- March 2018 **Polytechnic Malaysia, Putrajaya, Malaysia:**
MAC for Massive Open Online Course (MOOC),
Coaching lecturers from Polytechnic HQ Putrajaya on using Macbook to create MOOC content.
- March 2018 **Sultan Mahmud Secondary Science School, Kuala Terengganu, Malaysia:**
Digital iBooks Development Workshop,
Coaching teachers on creating interactive Apple iBooks for teaching and learning.
- February 2018 **MARA Excellent Ventures Sdn Bhd, Malaysia:**
MRSM PLATO: Redesigning Thinking, Redesigning Learning,
Facilitating 40 school teachers across Malaysia creating e-Learning content using iPad and Macbook.
- January 2018 **MRSM Tun Ghafar Baba Secondary School, Melaka, Malaysia:**
Creative Educator Academy,
Facilitating teachers on using iPad for teaching and learning.
- December 2017 **Universiti Pendidikan Sultan Idris, Tanjung Malim, Malaysia:**
PLATO: iPad Learning Environment Course,
Coaching lecturers on creating on-line course in iTunes U.
- November 2017 **Tunku Kurshiah College, Seremban, Malaysia:**
Designing Learning, Designing Content,
Facilitating secondary school teachers on the principle of designing content for learning using iPad.

- February 2017 **MRSM Taiping Secondary School, Taiping, Malaysia:**
Digital iBooks Development Workshop,
Coaching teachers and students on creating interactive Apple iBooks compiling their achievement for applying Apple Distinguished School (ADS).
- July 2016 **Fairview International School, Kuala Lumpur, Malaysia:**
Creative Educator Academy,
Facilitating teachers on using iPad for teaching and learning.
- May 2016 **Seri Puteri Secondary School, Cyberjaya, Malaysia:**
iPad Learning Environment,
Facilitating workshop for teachers creating online iTunes U courses using iPad.
- May 2016 **AIU-Irsyad International School Al-Bukhary, Kedah, Malaysia:**
Learning in 21st century,
Short talk on learning with Apple learning environment.
- 31 Jan-4 Feb 2016 **Universiti Malaysia Kelantan, Bachok Kelantan, Malaysia:**
Creative Digital Content with iPad.,
Training on creating learning content with iPad.
- 13-14 May 2015 **Permata Insan Boarding School, Nilai, Malaysia:**
Development of Islamic Content Studies and Pedagogy Workshop,
Development of teaching and learning contents of Islamic subjects in Apple iBooks.
- 7-8 Sept 2015 **Ministry of Education Malaysia, Sekolah Dato' Abdul Razak Seremban, Malaysia:**
Creative Educators Academy Workshop,
Training on creating interactive contents for teaching and learning using iPad.
- 29-30 Sept 2015 **Universiti Malaysia Kelantan, Bachok Kelantan, Malaysia:**
iTunes U Development,
Training on developing iTunes U platform and interactive contents for teaching and learning using iPad.
- 17-19 Dec 2015 **Universiti Kebangsaan Malaysia, Bangi, Malaysia:**
Creative Educators Academy Workshop,
Training on creating interactive contents for teaching and learning using iPad.

PROFESSIONAL MEMBERSHIP

International

- Member **Institute of Noise Control Engineering (INCE), USA**, 2012–present
- Member **International Institute of Acoustics and Vibration (IIAV), USA**, 2013–present
- Member **The Mobius Institute, Australia**, 2013–present

National

- Founding Member **Society of Vibration and Acoustics Malaysia (SVAM)**, 2013–lifetime
- Life Time Member **Society of Engineering Education Malaysia (SEEM)**, 2016–lifetime

RESEARCH AWARDS

International

- 2005–2008 **Rayleigh Scholarship for PhD**, ISVR, University of Southampton, United Kingdom
- November 2012 **Seoul International Invention Fair (SIIF), Silver Medal**, Sugarcane bagasse as sustainable green sound absorber, Seoul, South Korea
- February 2012 **Malaysia Technology Expo (MTE), Silver Medal**, Paddy straw and sugarcane fibers as sustainable 'green' acoustic absorbers, Kuala Lumpur, Malaysia
- November 2014 **Bio Innovation, Bronze Medal**, A novel sound absorbing material from natural rubber foam with spent tea leaf, Kuala Lumpur, Malaysia
- February 2015 **Malaysia Technology Expo (MTE), Silver Medal**, Sustainable laminated rubber-metal spring from natural rubber, Kuala Lumpur, Malaysia
- December 2015 **Pecipta, Bronze Medal**, T-Test, Kuala Lumpur, Malaysia
- October 2017 **ICQCC Manila, Philippine, Gold Medal**, Innovation in e-Attendance
- September 2019 **ICQCC Tokyo, Japan, Gold Medal**, Innovation in Laboratory 3D-Printing for T&L

National

- February 2012 **UTeMEX, Gold Medal**, Paddy straw and sugarcane fibers as sustainable 'green' acoustic absorbers, UTeM
- February 2012 **UTeMEX, Silver Medal**, Low cost impedance tube system to measure sound absorption and transmission loss, UTeM
- December 2013 **UTeMEX, Silver Medal**, Human motion energy harvesting device, UTeM
- December 2013 **UTeMEX, Bronze Medal**, Reed as green acoustic material, UTeM
- December 2013 **UTeMEX, Bronze Medal**, Wind energy harvester, UTeM
- October 2015 **UTeMEX, Gold Medal**, DIY-Green Sound Absorber, UTeM
- October 2015 **UTeMEX, Gold Medal**, Reed Imperrata Cylindrical, UTeM
- October 2015 **UTeMEX, Silver Medal**, OPALF Green Sound Absorber, UTeM
- August 2016 **Innovative and Creative Group Convention, Gold Medal**, e-Attendance Universiti Malaysia Trengganu
- August 2016 **Team Excellence Convention, Gold Medal**, e-Attendance Ministry of International Trade and Industry Malaysia
- October 2016 **Annual Productivity & Innovation Conference, Gold Medal**, e-Attendance Ministry of International Trade and Industry Malaysia
- July 2017 **E-Learning Carnival 2017, Gold Medal**, eBooks as Interactive Books for Engineering Centre for Instructional Resources & Technology, UTeM

- July 2017 **UTeMEX Research Exhibition, *Special Award***, UTeM Green Acoustic Panel
- July 2018 **E-Learning Carnival 2018, *Silver Medal***, Integration of Scribed Video Lectures into Flipped Learning Approach in Mechanical Vibration Subject
Centre for Instructional Resources & Technology, UTeM

ADMINISTRATION

- Mac 2010-Feb 2012 **Committee member of Outcome Based Education (OBE)**, *Faculty of Mechanical Engineering*, UTeM
- Mac 2010-Feb 2012 **Committee member of Event and Exhibition**, *Faculty of Mechanical Engineering*, UTeM
- January 2011 **Committee member of Penerbitan Malajah "Sedekat FKM di Bumi Hang Tuah"**, *Faculty of Mechanical Engineering*, UTeM
- March 2011 **Committee member of Program Sarjana Sains Kejuruteraan Automotif**, *Faculty of Mechanical Engineering*, UTeM
- May 2011 **Committee of Hari Penyelidikan 2011 Fakulti Kejuruteraan Mekanikal**, *Faculty of Mechanical Engineering*, UTeM
- June 2011 **Committee of Penerbitan "Sedekat FKM di Bumi Hang Tuah"**, *Faculty of Mechanical Engineering*, UTeM
- October 2011 **Committee of Program Minggu Reka Bentuk**, *Faculty of Mechanical Engineering*, UTeM
- Nov 2013-Nov 2014 **Committee member of Undergraduate Final Year Project**, *Faculty of Mechanical Engineering*, UTeM
- Nov 2014-Dec 2016 **Head of Undergraduate Final Year Project Committee**, *Faculty of Mechanical Engineering*, UTeM
- Apr 2015-Mar 2017 **Head of Vibro-Acoustics Research Group**, *Centre for Advanced Research on Energy*, UTeM
- August 2016-Mar 2018 **Coordinator of Centre of Excellence**, *Centre for Advanced Research on Energy*, UTeM
- Apr 2018-Mar 2020 **Head of Information and Communication Technology Committee**, *Faculty of Mechanical Engineering*, UTeM

OTHERS

2014-present **Teaching module: Mechanical Vibrations, Author**
Published

2014-present **iBooks: Mechanical Vibrations, Author**
In-Progress

REFERENCES

Head of Department **Dr. Juffrizal Karjanto**, Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka (UTeM)

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Email: noraini@apple.com

Working partner in consultancy **Hj Hamidon Hj Ali**, *Technical Director and Founder*, INTEKMA Engineering and Services Sdn Bhd

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