

TS. DR. NURIZZATUL ATIKHA BINTI RAHMAT

PERSONAL DETAILS	
Senior Lecturer Faculty of Mechanical & Automotive Engineering Technology Universiti Malaysia Pahang, 26600 Pekan, Pahang, Malaysia	
Date of Birth	27 th November 1988 (36y 3mo)
Email address	izzatulatikha@umpsa.edu.my
Contact No.	(+60)16-7021405 or (+60)9-4246244
Languages	Japanese, English, Malay



ACADEMIC CREDENTIALS		
DOCTOR OF PHILOSOPHY IN ENGINEERING		
Institution	Kyushu University, Kyushu, Japan	April 2013 – Dec 2017
Discipline of Study	Doctor of Philosophy in Engineering: Interdisciplinary Graduate School of Engineering Sciences, IGSES.	
Major	Wind Engineering, Energy and Environmental Engineering.	
Research Title	Experimental Study on Aerodynamic Features of Boundary Layer Developed past Spires over Wall Surfaces.	
Scholarship	Ministry of Higher Education (MOHE), Malaysia	
MASTER OF ENGINEERING		
Institution	Okayama University of Science, Okayama, Japan	April 2011 – March 2013
Discipline of Study	Master of Engineering: Graduate School of Engineering.	
Major	Mechanical Systems Engineering, Measurement and Control System Department.	
Research Title	Prediction of Maximum Strain and Average Strain Rate in SHPB Specimens Based on Energy Analysis	
Scholarship	Ministry of Higher Education (MOHE), Malaysia	
BACHELOR OF ENGINEERING		
Institution	Okayama University of Science, Okayama, Japan	April 2009 – March 2011
Discipline of Study	Bachelor of Engineering: Mechanical System Engineering	
Major	Mechanical Systems Engineering, Measurement and Control System Department	
Research Title	Vibrating Reed Method for Determining the Viscoelastic Properties of Paperboard	
Scholarship	Yayasan Pelajaran Mara (YPM) Malaysia.	
DIPLOMA IN MECHANICAL ENGINEERING		
Institution	Japanese Associate Degree (JAD) in UNISEL	May 2006 – Feb 2009
Major	Mechanical Engineering	
Scholarship	Yayasan Pelajaran Mara (YPM) Malaysia.	
SECONDARY SCHOOL		
Institution	Mara Junior Science College (MRSM) Muar, Johor	Jan 2004 - 2005

WORKING EXPERIENCE		
Institution	Universiti Malaysia Pahang Al-Sultan Abdullah	Aug 2018 – present (8 years)
Position	Senior Lecturer	
Faculty	Faculty of Mechanical and Automotive Engineering Technology (FTKMA)	
Company	MIKHA ACADEMY ENTERPRISE	August 2017 – present (9 years)
Position	Managing Director	
Company	Servicessource International Malaysia Sdn Bhd	Dec 2016 – July 2017 (8 months)
Position	Senior Executive (Japanese Speaker Role)	

AWARDS AND ACHIEVEMENTS	
Anugerah Cendekia Bitara - GOLD UMPSA 2023 Kategori Penerbitan Jurnal WoS	28 Sept 2024
Anugerah Cendekia Bitara 2023 Kategori Penerbitan Bab Buku 1	
Anugerah Cendekia Bitara 2023 Kategori Penerbitan Bab Buku 2	
Silver Medal in CITREX2024 at UMPSA Gambang	2024
Anugerah Pekerja Cemerlang UMP 2023/2024	2024
Global Classroom Collaboration with Kyushu University (Prof. Dr. Ikegaya Naoki)	23 Jan 2024
Finalist Anugerah Akademik Universiti (AAU2023)	2023
Anugerah Pekerja Cemerlang UMP 2022/2023	2023
Anugerah Pekerja Cemerlang UMP 2021/2022	2022
Finalist Anugerah Akademik Harapan (AAU2022)	2022
Best Presenter Award in 6th ICMER2021	26 – 27 Oct 2021
Anugerah Pekerja Cemerlang 2020/2021	2021
Global Classroom Collaboration with Kyushu University (Prof. Dr. Ikegaya Naoki)	11 Jan 2021
Anugerah Pekerja Cemerlang 2019/2020	2020
Bronze Medal in Citrex 2022 at UMPSA Gambang	2020
Finalist Anugerah Akademik Harapan (AAU2020)	2020
Finalist Anugerah Akademik Harapan (AAU2019)	2019
Anugerah Pekerja Cemerlang 2018/2019	2018
Best Presentation in International CSS Conference, Kyushu, Japan	2016
Awarded SLAB Fellowship from Ministry of Higher Education and UMP to pursue Master Degree and Doctor of Philosophy (PhD) in Mechanical/Wind Engineering, at Kyushu University, Kyushu, Japan	2011
Awarded scholarship from Yayasan Pelajaran Mara (YPM) to pursue Bachelor Degree in Mechanical Systems Engineering at Okayama University of Science, Okayama, Japan	2006
Headmaster Excellent Award for Academic Achievement in MRSM	2005
Best Student Award in Sport	2002
Headmaster Award – ‘TOKOH MURID PEREMPUAN’	2000

PROFESIONAL QUALIFICATIONS/AFFILIATIONS	
Professional Technologist (MBOT, PT24030291)	2024
Graduate Technologist (MBOT, GT23040214)	2023

Senior Lecturer in FTKMA, UMPSA	2018
Graduate Engineer, Board of Engineer (BEM), Malaysia (1818-060000-GE-166266A)	2016
Student member, The Japan Society of Mechanical Eng., JSME	2011

PROFESIONAL APPOINTMENTS	
Academic Panel for WBL program in MCUBE ENGINEERING SDN BHD	26 Jan 2025
CEO/Head of Energy Sustainability Focus Group (ESFG) in FTKMA, UMPSA	2020 – 2024 (5 years)
Speaker for Program Semai Bakti with Yayasan Pelajaran Mara in Malaysia's Secondary Schools	29 July – 16 Nov 2024
Host for Global Classroom with Prof. Dr. Ikegaya Naoki, Wind-tunnel experiments for indoor and outdoor airflow around generic block arrays	18 Jan 2024
Reviewer for Journal of Applied Engineering Design and Simulation	2024
Internal Examiner for VIVA Master student, PMM17013 Luqman bin Abdul Halim	18 July 2024
Internal Examiner for VIVA PhD student, PMM16008 Ahmad Syazwan	21 March 2024
Speaker for ICFGS lecture series (iEEE)	2023
Chairman for Viva Master Student, Elnaz Youselfi, MML21006	28 July 2023
Panel Penilai Dalaman for Internal Research Grant UMPSA	2022 – present
Task Force for Self-Review Report 02 (SRR02) Document for FTKMA (15 April – 31 Dec 2022)	15 April 2022 - present
Academic & Accreditation for Engineering Technology Programmes – Automotive in FTKMA, UMPSA	2021 – present
UMPSA Representative for TVET FORUM MALAYSIA-CHINA	2022
Chairman for Symposium on Environment & Energy Systems, SEES22	2022
UNIDO Representative and UMP Project Leader on the collaboration between UNIDO-UMP on the module development - Solar Thermal Engineering Design	22 June 2022
REPORTER (CEO ESFG) for FTKMA Annual Book	11 Jan 2021 – 10 Jan 2022
Tugas-Tugas Khas Di Ftkma	1 Oct 2021 – 31 Mei 2022
FTKMA Entrepreneurship Coordinator	29 Dec 2021
Coordinator Learning & Teaching 4.0 through Global Classroom	7 July 2020
Lecturer of Entrepreneurship UMPSA with Ukm-Cesmed	28 Dec 2020
JPSF (Jawatankuasa Pengajian Siswazah Fakulti) main Member	2020 – 2024
JPIIF (Jawatankuasa Penyelidikan Dan Pengembangan Ilmu) main Member	2020 – 2024
Editorial Board Member for Journal of Building and Environmental Engineering	2020 – present
Editorial Board Member for Journal of Aerodynamics and Wind Engineering, JAWE	2020 – present
Curriculum & Examination Coordinator for Bachelor Tech. Automotive (BVA) FTKMA, UMPSA	2019 – 2020

ICMER Committee – Sponsorship	2019
Reviewer For Journal of Mechanical Engineering and Sciences, JMES	2018 – present
Reviewer For International Journal of Automotive and Mechanical Engineering, IJAME	2018 – present
Reviewer For Regional Conference on Mechanical and Marine Engineering, REMME.	2018 – present
Judge For “Glider Challenge” During the Engineering Day, Triumph	2018
Secretariat (Viva-Voce) For Postgraduate Student (Master’s Degree), Shathiswara Rao A/L Subramaniam,	22 Nov 2018
VICE PRESIDENT of Malaysian Associates in Kyushu, Japan	2014 – 2015
VICE PRESIDENT of Aspiring Malaysian Rijal, AMIR for East Japan	2012 – 2013
VICE PRESIDENT of Malaysian Associates in Okayama, Japan	2011 – 2012
PRESIDENT of Okayama Muslimah, Okayama, Japan (2011/12)	

MANAGERIAL EXPERIENCES (COURSE COORDINATOR)		
Degree, BTD2123 Fluid Mechanics	Sem 2_2024/2025	
Degree, BTD1222 Dynamics		
Degree, BTD1222 Dynamics	Sem 1_2024/2025	
Degree, BTD1251 Mechanical Laboratory 2		
Degree, BTD2123 Fluid Mechanics	Sem 2_2023/2024	
Degree, BTD2123 Fluid Mechanics		
Degree, BTD 1222 Dynamics	Sem 2_2022/2-023	
DRM 2313 Fluid Mechanics		
Degree, BMM 3521 Fluid Mechanics Lab	Sem 1_2022/2023	
Degree, BTD 1222 Dynamics		
Diploma, DMM 2533 Fluid Mechanics	Sem 2_2021/2022	
Diploma, DRM 2313 Fluid Mechanics		
Master, MME 6154 Advanced Thermodynamics (KMM & KMO)	Sem 1_2021/2022	
Degree, BMM 2513 Thermodynamics		
Degree, BMM 3521 Fluid Mechanics Lab (Flexi)	Sem 2_2020/2021	
Master, MME 6154 Advanced Thermodynamics (KMM)		
Degree, BMM 3531 Engineering Thermodynamics Lab	Sem 1_2020/2021	
Degree, BMM 2673 Thermodynamics		
Degree, BMM 2673 Thermodynamics	Sem 2_2019/2020	
Degree, BHA 2533 Fluid Mechanics		
Degree, BMM 2673 Thermodynamics (FLEXI)	Sem 1_2019/2020	
Degree, DMM 2533 Fluids Mechanics (Modular)		
Diploma, DMM 2533 Fluids Mechanics	Sem 2_2018/2019	
Degree, BMM 1553 Dynamics		
Diploma, DMM 2543 Thermodynamics	Sem 1_2018/2019	
Diploma, DMM 2533 Fluids Mechanics		
Diploma, DMM 2543 Thermodynamics		

TEACHING EVALUATIONS (e-PAT)		
94.8%	BTD 1223, Dynamics, Degree, 44 students, 2 credit hours, 8 contact hours	Sem 1_2024/2025

93.77%	BTD 1222 Dynamics, Degree , 61 students, 2 credit hours, 8 contact hours	
93.98%	BTD 2123, Fluid Mechanics Lab, Degree , 28 students, 2 credit hours, 8 contact hours	Sem 2_2023/2024
93.27%	BTD 2123, Fluid Mechanics Lab, Degree , 28 students, 2 credit hours, 8 contact hours	
90.65%	BTD 1222 Dynamics, Degree , 15 students, 2 credit hours, 8 contact hours	
94.86%	BMM 3521 Engineering Fluids Mechanics, Degree , 4 students, 1 credit hours, 4 contact hours	Sem 2_2022/2023
89.87%	BTD 1222 Dynamics, Degree , 42 students, 2 credit hours, 8 contact hours	
93.91%	DRM 2313 Fluids Mechanics, Diploma , 44 students, 3 credit hours, 4 contact hours	
93.11%	DRM 2313 Fluids Mechanics, Diploma , 44 students, 3 credit hours, 4 contact hours	
95.06%	BTD 1222 Dynamics, Degree , 39 students, 2 credit hours, 8 contact hours	Sem 1_2022/2023
92.65%	BMM 3521 Engineering Fluids Mechanics, Degree , 7 students, 1 credit hours, 4 contact hours	
91.91%	DRM 2313 Fluids Mechanics, Diploma , 60 students, 3 credit hours, 4 contact hours	
78.86%	DMM 2533 Fluids Mechanics, Diploma , 7 students, 3 credit hours, 4 contact hours	
73.06%	DRM 1721 Mechanical Technology Lab, Diploma , 7 students, 1 credit hour, 4 contact hours	
85.71%	MME 6154 Advanced Thermodynamics, Master , 6 students, 3 credit hours, 6 contact hours	Sem 2_2021/2022
100%	BMM 2513 Thermodynamics, Degree , 37 students, 3 credit hours, 6 contact hours	
98.57%	BMM 3521 Engineering Fluids Mechanics, Degree , 30 students, 1 credit hours, 4 contact hours	
85.71%	MME 6154 Advanced Thermodynamics, Master , 6 students, 3 credit hours, 6 contact hours	Sem 1_2021/2022
95.11%	BMM 2673 Thermodynamics, Degree , 39 students, 3 credit hours, 6 contact hours	
93.11%	BMM 3531 Engineering Thermodynamics Lab (FLEXI), Degree , 3 students, 3 credit hours, 6 contact hours	
93.11%	BMM 3531 Engineering Thermodynamics Lab, Degree , 58 students, 3 credit hours, 6 contact hours	
92.59%	BMM 3521 Engineering Fluids Mechanics Degree , 30 students, 1 credit hours, 4 contact hours	
95.58%	BHA 2533 Fluid Mechanics, Degree , 15 students, 3 credit hours, 6 contact hours	Sem 2_2020/2021
94.90%	BMM 2673 Thermodynamics, Degree , 37 students, 3 credit hours, 6 contact hours	

94.90%	BMM 2673 Thermodynamics (FLEXI), Degree , 9 students, 3 credit hours, 6 contact hours	Sem 1_2020/2021
89.14%	BMM 3531 Engineering Thermodynamics Lab, Degree , 32 students, 3 credit hours, 6 contact hours	
85.71%	MME 6154 Advanced Thermodynamics, Master , 16 students, 3 credit hours, 6 contact hours	
92.46%	DMM 2533 Fluids Mechanics, Diploma , 53 students, 3 credit hours, 6 contact hours	Sem 2_2019/2020
93.35%	BMM 1553 Dynamics Degree , 80 students, 3 credit hours, 6 contact hours	
93.35%	BMM 1553 Dynamics FLEXI, Degree , 8 students, 3 credit hours, 6 contact hours	
86.9%	DMM 2533 Fluids Mechanics, Diploma , 53 students, 3 credit hours, 6 contact hours	Sem 1_2019/2020
93.45%	BMM 1553 Dynamics Degree , 59 students, 3 credit hours, 6 contact hours	
93.45%	BMM 1553 Dynamics FLEXI, Degree , 4 students, 3 credit hours, 6 contact hours	
86.54%	DMM 2543 Thermodynamics, Diploma , 50 students, 3 credit hours, 6 contact hours	Sem 2_2018/2019
89.54%	DMM 2533 Fluids Mechanics, Diploma , 53 students, 3 credit hours, 6 contact hours	
95.69%	BMM 1553 Dynamics Degree , 57 students, 3 credit hours, 6 contact hours	
87.7%	BMM 3521 Engineering Fluids Mechanics Degree , 28 students, 1 credit hours, 4 contact hours	Sem 1_2018/2019
92.6%	DMM 2543 Thermodynamics, Diploma , 50 students, 3 credit hours, 6 contact hours	

RESEARCH

RESEARCH INTEREST

Wind Tunnel Studies, CFD Fluid Flow, Wind Engineering, Urban Environment, Urban Climatology, Building Environmental Engineering.

APPROVED GRANT AS PRINCIPAL INVESTIGATOR (PI)

Budget	Details	Status
RM40,000 (max value)	Project ID: RDU230340 Title: Boundary Layer Wind Tunnel Experiments on Wake Flow Generated Past a Row of Quarter Elliptic-Wedge Spires with Rough Wall Surfaces. Leader: • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) Team Member: • Dr. Ahmad Faiz Mohammad (MJIIT) • Dr. Ahmmad Shukrie Bin Md Yudin (UMP) • Dr. Nor Atiqah Binti Zolpakar (UMP) • Mr. Azim Bin Mohd Arshad (UMP)	Ongoing 01/09/2023 – 31/08/2025

RM107,200	Project ID: RDU1901208 (FRGS 2019) Title: Assessment of The Wake Flow Mechanism of Spanwise Expansion Interference by Rough Wall Boundary Turbulence. Leader: • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) Team Member: • Assoc. Prof. Dr. Sheikh Ahmad Zaki (MJIIT) • Prof. Naoki Ikegaya (Kyushu Univ.) • Assoc. Prof. Dr. Jolius bin Gimbun (UMP) • Dr. Nurrina binti Rosli (UMP)	Ended 01/09/2019 – 31/11/2022
RM36,500	Project ID: RDU190375 (UMP) Title: Wind Tunnel Experimental Study on Aerodynamic Interaction between Rough Wall Boundary Layer with Wake behind Vortices Generators. Leader: • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) Team Member: • Assoc. Prof. IR. Dr. Mohd. Fadhil Bin Md Din (UTM) • Assoc. Prof. Dr. Sheikh Ahmad Zaki (MJIIT) • Dr. Azizuddin bin Abd Aziz (UMP) • Assoc. Prof. Dr. Jolius bin Gimbun (UMP) • Dr. Erny Afiza binti Alias (UMP)	Ended 15/08/2019 – 14/05/2022
RM5,000	Project ID: RDU181112 (UMP) Title: Wind Tunnel Experimental Study on Aerodynamic Interaction between a Smooth and Rough Wall Boundary Layer with Wake Behind Single or Multiple Spires. Leader: • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)	Ended 02/10/2018 – 01/10/2020

APPROVED GRANT AS TEAM MEMBER		
Budget	Details	Status
RM24,000	Project ID: RDU230338 Title: Heat Dissipation Performance of Fin Fiber Reinforced Polymer Heat Exchanger Team Member: • Dr. Azizuddin Bin Abd Aziz (PI, UMP) • Prof. Dr. Wan Azmi Wan Hamzah (UMP) • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) • Dr. Mohd Yusof bin Taib (UMP) • Mr. Ahmad Basirul Subha bin Alias (UMP)	Ongoing 01/09/2023 – 31/08/2025
RM36,200	Project ID: RDU230354 Title: Effect of the Geometry Design of the Pressure Drop for Forced Convection of Polydimethylsiloxane (PDMS) microchannel (MC) Heat Sink	Ongoing 01/11/2023 – 31/10/2025

	Team Member: • Dr. Nor Atiqah Binti Zolpakar (PI, UMP) • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) • Dr. Mohd Yusof bin Taib (UMP) • Mr. Ahmad Basirul Subha bin Alias (UMP)	
RM159,850	Project ID: RDU (FRGS 2019) Title: Formulation of Thermal Comfort Index for the Assessment of Heat-Illness Incident using Physio and Perception Analysis. Team Member: • Assoc. Prof. IR. Dr. Mohd. Fadhil Bin Md Din (UTM) • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) • Prof. Dr. Shreeshivadasan A/L Chelliapan (UTM) • Dr. Shazwin Binti Mat Taib (UTM) • Dr. Malarvili Bala Krishnan (UTM) • Dr. Eeydzah Aminudin (UTM) • Dr. Lee Yee Yong (UMS) • Dr. Nickholas Anting Anak Guntor (UTHM) • Dr. Syaril Nizam Omar (USIM)	Ended 01/09/2019 – 31/05/2022
RM103,804	Project ID: Hitachi-Johnson Control Air-Conditioning with vot number 4B395 Title: Formulation of Thermal Comfort Index for the Assessment of Heat-Illness Incident using Physio and Perception Analysis. Team Member: • Prof. Dr. Sheikh Ahmad Zaki (MJIIT) • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) • Prof. Dr. Hagishima Aya (Kyushu University, Japan) • Prof. Dr Azli bin Abd Razak (UiTM) • Dr Mohamed Sukri bin Mat Ali (MJIIT)	Ended 01/06/2019 – 31/05/2020
RM28,450	Project ID: RDU1803132 Title: Experimental Study of Drag Reduction Effect by Microbubbles via Particle Image Velocimetry Team Member: • Dr. Erny Afiza binti Alias (PI, UMP) • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) • Dr. Muhammad Izhar bin Ishak (UMP) • Dr. Ahmed Nurye Oumber (UMP) • Dr. Fatimah Dzaharudin (UMP)	Ended 25/08/2018 – 24/11/2020
RM37,100	Project ID: RDU1803129 Title: Experimental Study of Nozzle Influence on Oil Mist Adhesion After Milling Process of Automotive Parts Team Member: • Dr. Nurrina binti Rosli (PI, UMP) • Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) • Dr. Mohd Azmir bin Mohd Azhari (UMP)	Ended 25/08/2018 – 24/11/2020

	• Dr. Rashiyah binti Abd Aziz (UMP) • Dr. Izwan bin Ismail (UMP) • Dr. Amiril Sahab bin Abdul Sani (UMP)	
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RESEARCH SUPERVISION		
DOCTOR OF PHILOSOPHY (PhD)		
Type	Details	Status
Main SV	Name: Beuna Bardant Institution: Universiti Malaysia Pahang (UMP), Pekan, Pahang, Malaysia Title: Aerodynamic interaction between rough wall boundary layer with wake behind vortices generators	Deferred
Co – SV	Name: Mohd Amirul bin Abd Rahman Institution: MJIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia Title: Wall Pressure on Cubical Scale Model affected by Atmospheric Turbulent Flow	
	Name: Tan Chun Khai Institution: MJIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia Title: Effect of design parameters on the performance of vertical-axis wind turbine	Ongoing
MASTER'S DEGREE		
Main SV	Name: Muhammad Arifuddin Fitriady Institution: Universiti Malaysia Pahang (UMP), Pekan, Pahang, Malaysia Title: Assessment of the Wake Flow Mechanism of Spanwise Expansion Interference Behind Spire by Smooth Wall Boundary Turbulence	Graduated
	Name: Kamil Khalili bin Haji Abdullah – MA18217 Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia Title: Design and development of quasi-atmospheric boundary layer in an open loop wind tunnel with passive devices.	Ongoing
	Name: Achmad Ryzal Piliang bin Yusrizal Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia Title: Traditional Malay house flow pattern using smoke wire technique enhancement in small-scaled boundary layer wind tunnel	Ongoing
Co – SV	Name: Vikneshvaran A/L Tanabalam Institution: MJIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia Title: Reproducing Atmospheric Boundary Layer Inside Open Loop Wind Tunnel	Graduated
	Name: Fauzan Fahmi Mohamad Nora'eni	Graduated

	Institution: Universiti Teknologi Malaysia (UTM), Johor, Malaysia Title: Formation of Thermal Comfort Index for The Assessment of Heat-Illness Incident Using Physiological Parameters	
	Name: Siti Norsyahira Binti Mohd Zahari Institution: Universiti Malaysia Pahang (UMP) Title: Effects of Nonlinear Acoustic Flow on The Heat Transfer Process In thermoacoustic System	Ongoing
	Name: Miko Hadi Institution: MJIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia Title: Experimental Investigation of Cross-Ventilation Attic Flow Under the Neutral Boundary Layer Effect	Ongoing
	Name: Nur Amira binti Mohd Pouzi Institution: Universiti Malaysia Pahang (UMP) Title: Experimental Study of Drag Reduction Effect by Microbubbles via Particle Image Velocimetry	Ongoing
BACHELOR DEGREE		
Main SV	Name: Nik Afizi Shahrman bin Nik Ahmad Shahrul Azhar – MA21061 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Wind Tunnel Experimental Studies on Flow Pattern Behind Finite Wall Barrier Utsing Smoke Wire Technique	Ongoing
	Name: Muhammad Nasron Zuhair bin Mat Noh – MA22051 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: The flow pattern experiment around Traditional Malay House using smoke wire technique in a wind tunnel	Ongoing
	Name: Muhammad Haiqal Deniel bin Suhaimi – MA22113 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Assesment on vertical velocity profiles behind row of spires developing over smooth and rough wall boundary layer	Ongoing
	Name: Muhammad Afiq Safwan bin Harozi – MA20142 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Traverse system for small scaled boundary layer wind tunnel (September 2023 – 28th June 2024).	Graduated
	Name: Khairul Ikhwan bin Mustafar – MA20167 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Flow Visualisation behind 2-Dimensional Bodies Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (September 2023 – 28th June 2024).	Graduated
	Name: Muhammad Danial Iqmal bin Zainuddin – MA19304 Institution: Universiti Malaysia Pahang (UMP), Pahang	Graduated

	Title: Development of the smoke wire technique in an open loop boundary layer wind tunnel, (15 October 2022 - 2023).	
	Name: Muhammad Hafizuddin bin Alias – MA19304 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Qualitative study for different types of Traditional Malay House using smoke wire technique in an open loop boundary layer wind tunnel, (15 October 2022 - 2023).	Graduated
	Name: Khairun Adhani binti khairunizam – MA18102 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Flow Visualisation behind 2-Dimensional Bodies Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (1 March 2021 – October 2022).	Graduated
	Name: Kamil Khalili bin Haji Abdullah – MA18217 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Flow Visualisation behind Traditional Malay House Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (1 March 2021 – October 2022).	Graduated
	Name: Hirwansah bin Rahman – MA17005 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Simulation Study on Aerodynamic Interaction Between Wake Flow Behind a Tall and Slender Skyscraper with Rough Wall Boundary Layer, (20th October 2020-2021).	Graduated
	Name: Muhammad Rozaki – MA17001 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Enhanced Smoke Wire Technique with Control Dripping Valve in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-1 March 2021).	Graduated
	Name: Muhammad Mujahid – MA17162 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Aerodynamic Interaction between Rough Wall Boundary Layer with Wake Behind Spires at Longest Streamwise Position, (10th September 2019-1 March 2021).	Graduated
	Name: Hanis Marni Akmal Binti Hamdzah – MH16028 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Simulation on Wake Flow behind Rigid Bodies and its Aerodynamic Interaction with Smooth and Rough Wall Boundary Layer, (10th September 2019-20th October 2020).	Graduated
	Name: Mohamad Syafiq Bin Mohd Tahir – MH16067 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Aerodynamic Interaction between Smooth Wall Boundary Layer with Wake Behind Spires at Longest	Graduated

	Streamwise Position, (10th September 2019-2nd September 2020).	
	Name: Ahmad Faizul bin Zainuddin – MA15133 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Simulation of The Aerodynamic Interaction between Smooth Wall Boundary Layer with Wake Generated Behind a Single Spire, (15th August 2018-2nd September 2020).	Graduated
	Name: Mohamad Fariz bin Zakaria – MA17210 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Wake Flow Recovery Process Behind Slender Vortices Generator, (28th January 2019-25th February 2020).	Graduated
	Name: Muhamad Dzulhilmi bin Immeran – MA14158 Institution: Universiti Malaysia Pahang (UMP), Pahang Level: Bachelor's degree Title: Simulation of The Aerodynamic Interaction between Smooth and Rough Wall Boundary Layer with Wake Generated Behind Multiple Spires, (15th August 2018-17th May 2019).	Graduated
DIPLOMA DEGREE		
Main SV	Name: Muhammad Syahmi bin Shaari – MB20090 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Flow Visualisation behind Different types of Vortex Generators Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (1 March 2022 – October 2022).	Graduated
	Name: Raja Nuraisyah binti Raja Kamal Azira – MB20050 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Inflow Condition of a Quasi-Atmospheric Boundary Layer Wind Tunnel with and without honeycomb, (1 March 2022 – October 2022).	Graduated
	Name: Agha Khilfi bin Suarno – MB 16285 Institution: Universiti Malaysia Pahang (UMP), Pahang Level: Diploma Degree Title: Design of Vortices Generators to Deepen the Boundary Layer in a Wind Tunnel, (15th August-30th December 2018).	Graduated
	Name: Muhammad Hafizuddin bin Alias – MB17219 Institution: Universiti Malaysia Pahang (UMP), Pahang Level: Diploma Degree Title: Design and Fabrication of an Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (29th January 2019-14th May 2019).	Graduated
	Name: Amar Suhail bin Azman – MB17012 Institution: Universiti Malaysia Pahang (UMP), Pahang	Graduated

	Title: Flow Visualisation using Smoke Wire Technique on Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-10th February 2020).	
	Name: Afdhalul Irfan bin Abdullah – MB18138 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Fabrication on Valve Timing Control Dripper in Smoke Wire Technique on Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-2nd September 2020).	Graduated
	Name: Muhammad Haiqal bin Kamarudin – MB17162 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Fabrication on Rough Wall and Traditional Model House in an Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-2nd September 2020).	Graduated
	Name: Muhamad Haziq Bin Abdul Wahid– MB19090 Institution: Universiti Malaysia Pahang (UMP), Pahang Title: Experimental Study on Flow Pattern Behind Traditional Malay House by Smoke Wire Technique in a Boundary Layer Wind Tunnel, (1st March 2021-present).	Graduated

RESEARCH PUBLICATIONS	
Details	Status
Optimization of the Experimental Conditions for Smoke Wire Technique in a Wind Tunnel, Achmad Rizal Piliang Yusrizala, Nurizzatul Atikha Rahmat, Kamil Khalili Abdullah, Khairul Ikhwan Mustafar, Muhammad Afiq Safwan Harozi, Nor Atiqah Zolpakar, Izuan Amin Ishak, Theoretical and Applied Mechanics Letter	Submitted
A.R.P Yusrizal, Nurizzatul Atikha Rahmat, K.K. Abdullah, A Review of Smoke Wire Technique for Wind Tunnel Flow Visualization Experiment, Journal of Mechanical Engineering and Sciences	Camera Ready
K.K. Abdullah, Nurizzatul Atikha Rahmat, A.R.P Yusrizal, A.F Mohammad, S.A Zaki, Design Development of Small-Scale Quasi Atmospheric Boundary Layer Wind Tunnel for Building Aerodynamics: A Review, Journal of Mechanical Engineering and Sciences	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, Kamil Khalili Bin Haji Abdullah, and Achmad Rizal Piliang Bin Yusrizal, Vertical and Lateral Velocity Profiles behind a Single Spire in a Boundary Layer Wind Tunnel: OpenFOAM Approach, Journal of Wind Engineering and Industrial Aerodynamics, WoS Q1	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, Kamil Khalili Bin Haji Abdullah, and Achmad Rizal Piliang Bin Yusrizal, Quasi-Atmospheric Boundary Layer Generation and Enhancement by Spires in a Boundary Layer Wind Tunnel: A Review, Journal of Wind Engineering and Industrial Aerodynamics, WoS Q1	Submitted, Under Review

Kamil Khalili Haji Abdullah, Nurizzatul Atikha Rahmat, ARP Yusrizal, MAS Harozi, KI Mustafar, Nor Atiqah Zolpakar, Design and Construction of a Detachable Traverse System for Small Scaled Quasi Boundary Layer Wind Tunnel, Materials Science Forum (ISSN print 0255-5476 / ISSN web 1662-9752). Indexed by Elsevier: SCOPUS.	Waiting to publish
Muhammad Nur Farhan Saniman, Mohd Aswad Hanafi, Khairul Anuar Abd Wahid, Muhammad Hisyam Rosle, Eliza M Yusup, Nurizzatul Atikha Rahmat, Iwao Matsuya, Autonomous 3D-Printed Microfluidics Using Responsive Materials for Integrated Sensors: A Review, Journal of Advanced Research in Experimental Fluid Mechanics	Submitted, Under Review
Nur Amira Mohd Pouzi, Erny Afiza Alias, Izzati Salwani Zaidi, Muhammad Izhar Ishak, Nurizzatul Atikha Rahmat, Investigating the Impact of Rotational Porous Tube Parameters on Generated Microbubble Size, Journal of Advanced Research in Experimental Fluid Mechanics	
Nor Atiqah Zolpakar, Siti Nursyahirah Mohd Zahari, Izuan Amin Ishak, Mohd Aidil Safwan, Nurizzatul Atikha Rahmat, A Review of Fabrication Methods of Microchannel Heat Sink for Electronic Devices Cooling System	
Miko Hadi Wijaya, Sheikh Ahmad Zaki, Ahmad Faiz Mohammad, Noor Alam, Nurizzatul Atikha Rahmat, Nora'zizi Othman, Wind Tunnel Study on the Effects of Mean Velocity Distribution in Roof Attics with Different Cross Ventilations	
Chun Khai Tan, Ahmad Faiz Mohamad, Nurizzatul Atikha Rahmat, Sheikh Ahmad Zaki, and Farah Liana Redzuan, Numerical Investigation of Blade Tip Loss Effect of the Torque of H-Rotor Vertical Axis Wind Turbine, Journal of Transport System Engineering, 11, 1., pp. 56-62. 2024	Published
Miko Hadi Wijaya, Sheikh Ahmad Zaki, Ahmad Faiz Mohamad, Nurizzatul Atikha Rahmat, and Nor'azizi Othman, Investigation of wind flow characteristics using passive devices in boundary layer wind tunnel, Journal of Transport System Engineering, 11.1 pp. 70-73. 2024	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Vertical and Spanwise Wake Flow Structures of a Single Spire over Smooth Wall Surface in a Wind Tunnel, Journal of Applied Fluid Mechanics (JAFM). 2023.	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Numerical Simulation of the Boundary Layer Development behind a Single Quarter Elliptic-Wedge Spire, Journal of Mechanical Engineering and Sciences (JMES). 2023. Doi: https://doi.org/10.15282/jmes.17.2.2023.1.0745	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Numerical Simulation on the Elucidation of Wake Flow Structure Behind a Single Quarter Elliptic-Wedge Spire, IET conference publications. 2023. Doi: 10.1049/icp.2022.2627	Published

Kamil KH Abdullah, Nurizzatul Atikha Rahmat, Khairun A Khairunizam, Flow Pattern around Traditional Malay House using Enhanced Smoke Wire Technique in a Boundary Layer Wind Tunnel, IET conference publications. 2023. Doi: 10.1049/icp.2022.2569	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Effect of Mesh Refinement on Vertical and Lateral Velocity Profiles of the Wake Flow behind a Spire based on CFD, Journal of Engineering and Technology, 2023.	
Siti Norsyahira Mohd Zahari, Nor Atiqah Zolpakar, Nurizzatul Atikha Rahmat, Flow Pattern Analysis for Oscillatory Flow inside Resonator Tube for	
Nurul Izzati, Sheikh Ahmad Zaki, Hom Bahadur Rijal, Jorge Alfredo Ardila Rey, Aya Hagishima and Nurizzatul Atikha, Investigation of thermal adaptation and development of an adaptive model under various cooling temperature settings for students' activity rooms in a university building in Malaysia, Journal of Buildings, Vol. 13(1), No. 36, pp. 1-25. https://doi.org/10.3390/buildings13010036	
Nurizzatul Atikha Rahmat, Kamil Khalili Haji Abdullah & Khairun Adhani Khairunizam, Natural Ventilation in Traditional Malay House: A Study of Flow Pattern by an Enhanced Smoke Wire Technique, Lecture Notes in Energy, Volume 92, pp. 289 – 303 (2022)	
Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, Ahmad Faiz Mohammad, Urban Heat Island Phenomenon in Tropical Countries: Analysis of the Wake Flow Behind Slender High-Rise Building, Lecture Notes in Energy, Volume 92, pp. 289 – 303 (2022)	
Nurizzatul Atikha Rahmat, Mohammad Rozaki Ramli, Mujahid Husaimi Che Hassan, Kamil Khalili Haji Abdullah & Khairun Adhani Khairunizam, Enhanced Smoke Wire Technique with Control Dripping Valve in a Small Scaled Quasi-Atmospheric Boundary Layer Wind Tunnel, Lecture Notes in Mechanical Engineering, Springer, pp. 611-627 (2022)	
Nurizzatul Atikha Rahmat, Mohammad Rozaki Ramli, Mujahid Husaimi Che Hassan, Kamil Khalili Haji Abdullah, and Khairun Adhani Khairunizam, 6th International Conference on Mechanical Engineering Research (ICMER) 2021, titled, "Enhanced Smoke Wire Technique with Control Dripping Valve in a Small Scaled Quasi-Atmospheric Boundary Layer Wind Tunnel". LNME Paper Proceeding	
Tan Chun Khai, Ahmad Faiz Mohammad, Sheikh Ahmad Zaki, Fazlizan, Nurizzatul Atikha Rahmat, Farah Liana, Effect of design parameters on the performance of vertical-axis wind turbine: a review, Journal of Building Engineering (2022).	
Fauzan Fahmi Mohamad Nora'eni, M. B. Malarvili, Nurizzatul Atikha Rahmat, Mohd Fadhil Md Din, and Fadzlin Md Sairan, Physiological Response to Submaximal Exercise in Cold and Hot Ambient Temperature, Journal of Mechanical Engineering, Vol. SI 10 (1), pp. 277-292 (2021).	

Nurul Izzati Kamaruddin, Sheikh Ahmad Zaki, Hom Bahadur Rijal, Aya Hagishima, Waqas Khalid, Nurizzatul Atikha, Fitri Yakub, Farah Liana, Field Study of the Occupant's Thermal Preferences for Cooling in Living Rooms based on Different Set Point Temperatures, Proceedings paper of the International Conference on Advanced Technology and Applied Science, ICaTAS-MJJIC 2020 (15th October 2020).	Published
Fauzan Fahmi Mohamad Nora'eni, M. B. Malarvili, Nurizzatul Atikha Rahmat, Mohd Fadhil Md Din, and Fadzlin Md Sairan, Effect of Cold and Hot Temperature on Physiological Parameters During Exercise, Proceedings paper of the 2nd Climate Smart & Disaster Resilient ASEAN International Conference 2020, ASEAN CSDRA 2020 (26th October 2020).	
Vikneshvaran, Sheikh Ahmad Zaki, Nurizzatul Atikha Rahmat, Mohamed Sukri Mat Ali, Fitri Yakub, Evaluation of Atmospheric Boundary Layer in Open-Loop Boundary Layer Wind Tunnel Experiment, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Vol. 72, No. 2, pp. 79-92 (August, 2020)	
Experimental Study on Aerodynamic Features of Boundary Layer Developed past Spires over Wall Surfaces, Doctorate Degree Thesis	
Nurizzatul Atikha Rahmat, Hagishima Aya, Ikegaya Naoki, and Tanimoto Jun, Experimental Study on Effect of Spires on the Lateral Nonuniformity of Mean Flow in a Wind Tunnel, Evergreen Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 5, Issue 1 (2018)	
Nurizzatul Atikha Rahmat, Hagishima Aya, Ikegaya Naoki, and Tanimoto Jun, An Experimental Study on Aerodynamic Interaction between Boundary Layer generated by a Smooth and Rough Wall and a Wake Behind a Spire, Interdisciplinary Graduate School of Engineering Sciences Report, Vol. 37, No. 2, pp. 19-26 (2016)	
Nurizzatul Atikha Rahmat, Hagishima Aya, Ikegaya Naoki, and Tanimoto Jun, Experimental Study on Aerodynamic Interaction Between Boundary Layer Generated by a Smooth and Rough Wall and a Wake Behind a Spire, Proceedings paper of the 17th Cross Straits Symposium on Energy and Environmental Science and Technology, pp. 53-54 (2015).	
Ikegaya Naoki, Nurizzatul Atikha, Hagishima Aya, and Tanimoto Jun, 都市境界層風洞内におけるスパイヤー後流と乱流境界層気流の干渉に関する基礎的検討, Proceedings paper of The Japan Society of Fluid Mechanics (JSFM), pp. 1-4 (2014).	
Prediction of Maximum Strain and Strain Rate in SHPB Specimens based on Energy Analysis, Master Degree Thesis (2013).	
Rahmat Nurizzatul Atikha, Takashi Yokoyama and Nakai Kenji, Prediction of Maximum Strain and Strain Rate in SHPB Specimens based on Energy Analysis, 2012 JSEM Annual Conference on Experimental Mechanics (2012).	

Vibrating Reed Method for Determining the Viscoelastic Properties of Paperboard, Bachelor Degree Thesis.	Published
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INTERNATIONAL/LOCAL CONFERENCES/SYMPOSIUM AND TRAINING	
Oral Presentation in the 14th International Conference on Material Science and Engineering Technology (ICMSET 2025) for paper titled Design and Construction of a Detachable Traverse System for Small Scaled Quasi Atmospheric Boundary Layer Wind Tunnel, in Nagoya, Japan	22 – 24 Nov 2024
Speaker for Program Semai Bakti with Yayasan Pelajaran Mara in Malaysia's Secondary Schools	29 July – 16 Nov 2024
14 th Creation, Innovation, Technology, and Research Exposition, CITREX 2024	7 – 9 May 2024
Host for Global Classroom with Prof. Dr. Ikegaya Naoki, Wind-tunnel experiments for indoor and outdoor airflow around generic block arrays	18 Jan 2024
Host/Speaker for Sustainability Lecture Series on Talk 1: Sustainability and Energy Conservation in Building Sector and Talk 2: Floating Solar Systems and Ocean Carbon Removal	25 June 2022
UNIDO Representative and UMP Project Leader on the collaboration between UNIDO-UMP on the module development - Solar Thermal Engineering Design	22 June 2022
UNIDO Representative and UMP Project Leader on the collaboration between UNIDO-UMP on the module development - Solar Thermal principles and application	
Joint Chair for Symposium on Environment and Energy Systems 2022 (SEES2022)	18 March 2022
UMPSA representative in CHINA-MALAYSIA COOPERATION in TVET	12 March 2022
UMP National Conference for Postgraduate Research 2022 (NCON-PGR2022), titled, "Effect of Mesh Refinement on Vertical and Lateral Velocity Profiles of the Wake Flow behind a Spire based on CFD".	15 Nov 2022
Engineering Technology International Conference 2022 (ETIC2022) titled, "Numerical Simulation on the Elucidation of Wake Flow Structure behind a Single Quarter Elliptic-Wedge Spire".	7 Sept 2022
Engineering Technology International Conference 2022 (ETIC2022), titled, "Flow Pattern around Traditional Malay House using Enhanced Smoke Wire Technique in a Boundary Layer Wind Tunnel".	
6 th International Conference on Mechanical Engineering Research (ICMER) 2021, titled, "Enhanced Smoke Wire Technique with Control Dripping Valve in a Small Scaled Quasi-Atmospheric Boundary Layer Wind Tunnel".	26 – 27 Oct 2021
Global Classroom for DMM2533 Fluid Mechanics with Kyushu University titled "Wind Environment in Urban Area". Moderator: Dr Nurizzatul Atikha Rahmat, Speaker: Assoc. Prof. Ikegaya Naoki, 63 participants.	27 Oct 2020
10 th Creation, Innovation, Technology, and Research Exposition, CITREX 2020	12 – 13 Feb 2020

The 4th International Symposium on Fluid Mechanics and Thermal Sciences, 4th IS-FMTS 2019 at Palm Garden Hotel IOI Resort City, Putrajaya, Malaysia	14 Dec 2019
The 4th International Symposium on Fluid Mechanics and Thermal Sciences, 4th IS-FMTS	
Oral presentation in an International Conference CSS-EEST at Fukuoka, Japan.	2016
Oral presentation in a 9 th International Conference on Urban Climate held at Toulouse, France.	2015
Oral presentation in Annual Conference of The Japan Society of Fluid Mechanics (JSFM), Japan.	2014
Oral presentation in Joint International Conference of the 2 nd International Conference on Experimental Mechanics, The 11 th Asian Conference on Experimental Mechanics (ISEM-ACEM-SEM-7 th ISEM 2012) at Taiwan.	2013
Oral Presentation in 2012 Japanese Society of Materials Science (JSMS) Annual Conference at Tokyo, Japan (2012).	2012

ACADEMIC VISITATIONS FOR COLLABORATION	
Academic Visit to Venturi Asia for research collaboration	2020
Research Collaboration with Kyushu University, Japan and MJIT UTM, KL	2019
Research Collaboration with UTM Skudai, JB	
Academic Visit to Centre of Excellence Advance Sensor Technology (CEASTeach) at UNIMAP, Perlis	21 Jan 2019
Academic Visit to Aerospace Engineering Lab at USM, Penang	23 Jan 2019
Academic Visit to Micro and Nano Electric Lab at UTEM, Melaka	28 Dec 2018
Academic Visit to Wind Engineering and Building Physics Lab at UITM, Shah Alam	27 Dec 2018
Academic Visit to Wind Engineering and Environment (WEE) LAB at MJIT, UTM, KL	26 Dec 2018
Academic Visit to CARIFF at UMP Gambang Campus, Pahang	24 Dec 2018
7. Academic Visit to Politeknik Sultan Mizan Zainal Abidin, Dungun, Terengganu	25 Aug 2018