



## CURRICULUM VITAE



### PERSONAL DETAILS

**Name** : Haris Ahmad Bin Israr Ahmad  
**Gender** : Male  
**Date of Birth/Age** : 05/10/1983 / 41 years old  
**Nationality** : Malaysian  
**Marital Status** : Married  
**Permanent Address** : No. 18 Jalan Jasa 34, Taman Mutiara Rini, 81300 Skudai, Johor.  
**Correspondent Address** : No. 18 Jalan Jasa 34, Taman Mutiara Rini, 81300 Skudai, Johor.  
**Tel** : 011-11270757  
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**ID Staff** : 10172  
**Expertise** : Composite Structures (Fracture/Damage Mechanics), Aerostructures (Aircraft Structural Analysis and FEM)

### ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Ph.D.	Mechanical and Mechanics of Materials	Universite de Toulouse (ISAE)	Jan 2011	Feb 2014
2	Master of Science	Aerospace Mechanics and Avionics	Universite de Toulouse (ISAE)	Sept 2008	Sept 2010
3.	Bachelor of Engineering	(Mechanical-Aeronautics)	Universiti Teknologi Malaysia, Johor	June 2004	June 2007
4.	Diploma	Mechanical (Aeronautics)	Universiti Teknologi Malaysia, KL	June 2001	April 2004

### PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1	SANAE	International	Executive Board Member	2024
2	BEM	National	Graduate Member	2007-On going
3	IEM	National	Graduate Member	2007-On going
4	MBOT	National	Professional Technologist	2021-On going
5.	Aeros Malaysia	National	Member	2024-On going
5	CEO@Faculty	National	Fellow	2020

**ADMINISTRATIVE EXPERIENCE**

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ FACULTY/ DIVISION
1.	Head of Department	Nov 2023	Oct 2025	Department of Aeronautics, Automotive & Ocean Engineering, Faculty of Mechanical Engineering, UTM.
2.	Director of Department	Nov 2022	Oct 2024	Department of Aeronautics, Automotive & Ocean Engineering, Faculty of Mechanical Engineering, UTM.
3.	Director of Program	July 2022	Oct 2022	Program Aeronautics, Automotive & Ocean Engineering, Faculty of Engineering, School of Mechanical Engineering, UTM.
4.	Chief Editor	Feb 2023	Jan 2025	The Engineer Story, Faculty of Mechanical Engineering, UTM
5.	Academic Manager	Nov 2018	June 2022	Faculty of Mechanical Engineering, UTM.
6.	Program Coordinator	Mac 2015	July 2018	MSc. (Aeronautical Engineering), Department of Aeronautics, Automotive & Ocean Engineering, Faculty of Mechanical Engineering, UTM.
7.	College Fellow	Jun 2014	Dis 2016	Kolej Tun Razak, UTM
8.	Editorial Board Member	Jan 2018	Dec 2019	Journal of Transport System Engineering (JTSE), UTM
9.	Deputy Quality Manager	April 2022	April 2024	UTM Aerolab, Faculty of Mechanical Engineering, UTM.

**INTERNATIONAL/NATIONAL/UNIVERSITY COMMITTEE****International**

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	South East Asia Network on Aerospace Engineering (SANAe)	Executive Board Member	Jan 2024	Dec 2026
2	South East Asia Workshop on Aerospace Engineering, SAWAE 2024	Technical Committee	Mac 2024	Dec 2024
3	South East Asia Workshop on Aerospace Engineering, SAWAE 2019	Technical Committee	Oct 2018	Dec 2019
4	5th Global Nanotek Summit Committee	International Advisory Committee	Oct 2019	Oct 2019

**National**

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Workshop on R&T Roadmap for Malaysian Aerospace Industry	Member	Dec 2017	Dec 2017
2	Workshop on Round Table Discussion Industrial Academia (Aerospace Industry)	Member	Oct 2017	Oct 2017
3	Integrated corporate social responsibility (icsr) Project for CEO@Faculty 2.0 Cycle 3	Committee	Sept 2020	Dis 2020

4	<i>Strengthening Government – Academia – Industry – Community Collaboration</i>	Committee/Author	Oct 2020	Aug 2021
5	National Advanced Material Technology Roadmap 2021-2030	Member	April 2021	April 2021
6.	Aerospace Society Malaysia	Member	Sept 2024	August 2025

### **University**

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	Bengkel perancangan strategik universiti 2030 (Taskforce faculty)	Committee	June 2024	June 2024
2.	3rd International Seminar on Aeronautics and Energy 2023 (Isae 2023)	Deputy Chair	Aug 2023	Nov 2023
3.	Taskforce 'Rising Above Covid-19 Challenges – Graduate Employability (Race Ge)	Committee	Oct 2022	Sept 2023
4.	Task Force Pemerkasaan Sinergi 4.0 Fakulti Kejuruteraan	Committee	Jan 2022	Dec 2022
5.	International Seminar on Aeronautics and Energy 2022 (ISAE2022)	Organising Committee	June 2022	Sept 2022
6.	Karnival Pendidikan Kerjaya Program Matrikulasi Kementerian Pendidikan Malaysia Sesi 1 2019/2020	Petugas/UTM representative	Sept 2019	Sept 2019
7.	Postgraduate Information Day 2018	Petugas/Committee	Jan 2018	Jan 2018
8.	Taskforce Thesis Writing UTM	Committee		
9.	3 <sup>rd</sup> Multidisciplinary Conference on Mechanical Engineering (McME 2018)	Program Committee	Sept 2018	Sept 2018
10.	2 <sup>nd</sup> Multidisciplinary Conference on Mechanical Engineering (McME 2017)	Organising Committee	April 2017	Sept 2017
11.	1 <sup>st</sup> Multidisciplinary Conference on Mechanical Engineering (McME 2016)	Program Committee	Nov 2016	Nov 2016
12.	Journal of Transport and System Engineering	Editorial Board Member	Jan 2016	Dec 2021
13.	Karnival Pengajian Tinggi Negara 'Jom Masuk U' 2015	Petugas/UTM representative	Aug 2015	Aug 2015
14.	Langkawi International Maritime & Aerospace Exhibition 2015	Committee	Feb 2015	Mac 2015
15.	UTM Postgraduate Info Day 2015	Petugas	May 2015	Mac 2015
16.	Kursus Pembentukan Jawatankuasa Kolej Mahasiswa Kolej Tun Razak 2015	Committee	Dis 2014	Dis 2014
17.	Research, Development and Commercialization Committee (RDC)	Committee	Oct 2014	Sept 2016
18.	Karnival Pengajian Tinggi Negara 'Jom Masuk U' 2014	Petugas/UTM representative	Aug 2014	Aug 2014
19.	Institusi Pembangunan Fefo	Member	June 2014	Dec 2016

**SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES**

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1	<i>Kursus Sijil Pengajaran Pengajian Tinggi (Sppt)</i>	UTM	06/07/2014	17/07/2014
2	Health, Safety & Environment (HSE)	UTM	18/08/2014	19/08/2014
3	<i>Kursus Kemahiran Persembahan Efektif</i>	UTM	21/04/2014	22/04/2014
4	Leaner Diversity Workshop	UTM	23/06/2014	23/06/2014
5	Engineering Management Practice	UTM	20/9/2014	20/09/2014
6	Code of Ethics/Regulations	UTM	27/07/2015	28/07/2015
7	Strain Gauge Measurement on Materials Testing	CFC UTM	16/11/2015	17/11/2015
8	The Helicopter Technology Module	Toulouse, France	21/03/2016	08/04/2016
9	The Helicopter Structural Integrity Module	Unikl, KL	18/07/2016	22/07/2016
10	ALR101 - The academic leader - Roles, Responsibilities and Expectations	UTM	18/05/2017	18/05/2017
11	Workshop on Round Table Discussion Industrial Academia (Aerospace Industry)	KPT	23/10/2017	23/10/2017
12	Workshop on R&T Roadmap for Malaysian Aerospace Industry	MITI	13/12/2017	13/07/2017
13	ISO/IEC 17025 Awareness Training	IVAT, UTM	03/05/2016	03/05/2016
14	Supervisory Development Program (AS102)	UTM	2017	2017
15	Workshop on Aircraft Design and Certification	FKM, UTM	01/04/2018	02/04/2018
16	ALC102 - Strategic and operational planning	UTM	08/04/2018	08/04/2018
17	ISO/IEC 17025:2017 Internal Auditing	Shah Alam	06/08/2018	07/08/2018
18	ISO/IEC 17025 Measurement Uncertainty for Calibration and Testing Laboratory	Shah Alam	19/09/2018	20/09/2018
19	Remote Supervision	UTM	14/04/2019	14/04/2019
20	The Art of Aerodynamics: Design, Simulation & Wind Tunnel Testing	Proton	22/03/2019	22/03/2019
21	<i>Kursus Pengujian Terowong Angin untuk Lampu Jalan-Skop Ujian Akreditasi ISO 17025:2017</i>	UTM	21/07/2019	21/09/2019
22	Basic Governance and decision making (ALR102)	UTM	12/06/2019	12/06/2019
23	Strategic Planning SKM 2019	Pengerang	13/03/2019	15/03/2019
24	QALB Leadership Module	AKEPT	29/6/2020	30/6/2020
25	Pre-Attachment Workshop CEO@Faculty 2.0 Cycle 3	AKEPT	27/01/2020	29/01/2020
26	<i>Bengkel Permurnian Penulisan Buku Strengthening Academia-Industry-Community Collaboration</i>	JPT	27/08/2020	28/08/2020
27	Workshop of National Advanced Materials Technology Roadmap 2021-2030.	MIGHT	28/04/2021	28/04/2021
28	Job Description workshop for Faculty of Engineering Administrative	Melaka	08/06/2022	10/06/2022
29	Strategic Plan FKM 2023	Port Dickson	01/02/2023	03/02/2023
30	<i>Bengkel halatuju kurikulum program sarjana muda utm</i>	Putrajaya	23/02/2023	25/02/2023
31	Program Yes 2 Malaysia-The biggest Education Malaysia Info Day 2023	Dubai, UAE Dammam, Saudi	14/07/2023	21/07/2023

32	Executive Onboarding Program (EOP)	UTM	20/09/2023	21/09/2023
33	Strategic Planning FKM 2024	Bandar Penawar	15/02/2024	17/02/2024
34	Focus Group Discussion – Digital Competency Index	UTM	18/03/2024	18/03/2024
35	Wind tunnel Facility Design and Project Management Short Course	UTM	05/03/2024	06/03/2024

## RESEARCH ACTIVITIES

### *As a principal investigator*

NO	NAME OF GRANT	ROLE	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE
1.	A new unified strain-displacement compatibility model for photomechanics analysis of aero composite	PI	FRGS	140422	SEPT 2022	AUG 2025
2.	A Mixed-mode Delamination Criterion for Moisture Induced Carbon/Epoxy Composites	PI	UTMFR	60000	JUNE 2022	MAY 2024
3.	Metal Sponge-based material development for load bearing component of resilient contact system.	PI	TDR	40000	NOV 2018	MAY 2022
4.	Investigation of eco-composite materials energy dissipation behaviour	PI	FRGS	91000	NOV 2015	NOV 2018
5.	Experimental and numerical investigation of natural fiber composites under low velocity impact and crushing	PI	PAS	20000	FEB 2015	JAN 2016

### *As a scientific member*

NO	NAME OF GRANT	ROLE	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE
1.	Moisture absorption characteristics in fibre reinforced composite laminates	Member	FRGS	98000	Dec 2014	May 2017
2.	Mode III Participation in Mixed-mode Delamination of Composite Laminates	Member	Encouragement grant	20000	May 2015	July 2016
3	Advanced testing of laminated composites for aerospace parts and assemblies	Member	Contract	897200	Nov 2015	Oct 2020
4.	Investigation of recycling and re-manufacturing process parameters of highly-aligned long discontinuous aerospace carbon fibre composites	Member	FRGS	70200	Nov 2015	April 2018
5.	Damage assessment of laminated composites by digital image correlation technique	Member	Matching Grant	329400	Oct 2016	Oct 2020
6.	Innovative teaching and learning strategies in open modelling and simulation environment for student-centered engineering education / innovation	Member	Contract	474467.41	Oct 2016	Oct 2019

7.	Impact characteristics of natural fibre woven fabrics impregnated with a shear thickening fluid (stf)	Member	Tier 1	40000	July 2017	June 2019
8	A new three dimensional fracture criterion for mixed-mode delamination	Member	Tier 1	50000	Feb 2018	Jan 2020
9	Hybrid nanocomposite coating for resilient contact systems	Member	UTM-TDR	80000	Nov 2018	May 2022
10	High performance perfluoropolyether-based grease lubrication system	Member	UTM-TDR	40000	Nov 2018	May 2022
11	Mechanical characterization of frp composite laminates under fatigue loading conditions	Member	FRGS	86000	Jan 2019	Mac 2021
12	Analysis on the effect of valve stem geometrical parameters to the production of vortex-induced vibration (viv) in a governor valve system for 3 megawatt steam turbines.	Member	UTM-ER	30000	Nov 2019	Oct 2022
13	A New Traction-Separation Law for Fibre Bridging of Composite Laminates	Member	UTM Shine	40000	Mac 2020	Feb 2023
14	UTMIcon 3.2 : Development of high endurance and fully automated multirotor Unmanned Aerial System (mUAS)	Member	UTM RA Iconic Grant	150000	July 2020	June 2024
15	Fabrication Of High-Precision Fully-Automated Agriculture Drone For Spraying Application - Tanidrone	Member	Prototype Development Fund	30000	Dec 2021	Dec 2022
16	Tanjung Langsat Port Security System V2.0	Member	Contract Research	429795	Nov 2022	Sept 2026
17	Modelling Lubricant Film Formation Mechanism of Protic Ionic Liquid-based Polytetrafluoroethylene Grease for Electric Vehicles	Member	UTMFR	58288	Jun 2022	May 2024
18	UTM-TRG/2 1.1: Drone Assisted Security Solutions with Docking Station	Member	Translational Research@ Campus	300000	Feb 2023	Aug 2024
19	Operability Study of Ship-to-Ship (STS) Offloading Operation for ZLNG at Nearshore using CFD Simulation and Model Testing in Wave Basin Tank	Member	Contract Research	919600	June 2024	June 2026

**SUPERVISION****PhD Student**

No.	Name	Status (Graduated/ On-Going)	Date of Graduation (Date is based on Senate Letter)	Title	Roles of Supervision
1	Nurul Zubaidah Binti Zaki	Graduated	6 March 2024	Mathematical Modelling of Composite Wing Flutter With The Inclusion of Aeroelastic Bending-Torsion Coupling	Main Supervisor
2.	Lee Sim Yee (UTHM)	Graduated	Oct 2018	Experimental Study and Numerical Modeling of Woven Fabric Kenaf Fiber Composites Hybrid Adhesively Bonded-Bolted Joints	External Co- Supervisor
3.	Muhamad Shahirul Bin Mat Jusoh	Graduated	17 Dec 2019	Static And Dynamic Behaviour Of Natural Fibres Hybrid Composites	Co- Supervisor
4.	Azisyahirah Binti Azizan	Graduated	22 Feb 2022	Mesoscale Lamina Fatigue Damage Model For Fiber-Reinforced Polymer Composite Laminates	Co- Supervisor
5.	Syed Mohd Saiful Azwan Bin Syed Hamzah	Graduated	24 Nov 2022	Strength And Energy Absorption Characteristics Of Polymer Pin- Reinforced Foam Core Sandwich Panel	Co- Supervisor
6.	Mohamad Yusuf Bin Salim	Graduated	20 Dec 2024	Flexural Properties and Low Velocity Impact Response of Hybrid Basalt Stainless Steel Wire Mesh Reinforced Composites	Co- Supervisor
7.	Abdelmunem Bushra Abdalla Ahmed	On-Going	-	Modified Analytical Model Of Polymer Composite Laminate Under Strain Rate	Main Supervisor
8.	Syazwan Bin Ahmad Rashidi	On-Going	-	Development of Mesoscale Damage Model For Non-Crimp Fabric Composites.	Main Supervisor
9.	Low Kean Ong	On-Going	-	Displacement Rate Dependence of The Delamination Behaviour of Carbon/Epoxy Composite Laminates	Main Supervisor
10.	Ng Wei Kuan	On-Going	-	Effects of Stacking Sequence on Mechanical, Fracture And Impact Properties of Hybrid Bamboo/Glass Fiber Composites	Main Supervisor
11.	Muhammad Irfan Naufal Bin Mohd Zaki	On-Going	-	Fracture Toughness Behaviors of Recycled Carbon in Hybrid Composites under Mixed-Mode Loadings	Main Supervisor
12.	Nur Aisya Affrina Binti Mohamed Ariffin	On-Going	-	Predicting Friction For An Ionic Liquid Grease-Lubricated Bearing For Electric Vehicle Motors	Co- Supervisor
13.	Omar Abdulhasan Lafta	On-Going	-	Lateral Crushing of Auxetic Structure Tube under Impact Loading	Co- Supervisor

**MSc. Student**

No.	Name	Status (Graduated / On-Going)	Date of Graduation (Date is based on Senate Letter)	Title	Mode (Research / Taught-course / Mixed Mode)	Roles of Supervision
1.	Anders Hans Anak Romyne (Uthm)	Graduated	Sept 2017	A Study on Single-Lap Notched Woven Kenaf Reinforced Polymer Bolted Joint under Temperature Action	Research	External Co-Supervisor
2.	Teah Ang Toon Yew	On-Going	-	Detail Analysis of The Interaction Between Inner and Primary Vortex Above Blunt Leading-Edge Delta Wing.	Research	Co-Supervisor
3	Muhammad Bin Abdullah	Graduated	Feb 2019	Tensile Behaviour of Short Carbon Eco- Hybrid Composite	Taught Course	Main supervisor
4.	Abrar Bin Mohd Nasir	Graduated	Oct 2020	Numerical Investigation of Fibre Hybridisation Effect in Woven Fibre Composites	Taught Course	Main Supervisor
5.	Monica Tandle	Graduated	Oct 2023	Subsonic Aircraft Wing Designs for Various Planforms.	Taught course	Main Supervisor

**PUBLICATIONS****INDEXED-JOURNAL ARTICLE**

No	Article Title	Journal Title	Publication Year	IF	Type Of Publication	Quartile Ranking	Niche
1.	Experimental Investigation on Mean Crushing Stress Characterization of Carbon-Epoxy Plies Under Compressive Crushing Mode	Composite Structures	2013	6.3	WOS	Q1	Composite Structure
2.	Finite Element Simulation of 0 Degrees/90 Degrees Cfrp Laminated Plates Subjected to Crushing Using A Free-Face-Crushing Concept	Composites Part A- Applied Science And Manufacturing	2014	8.1	WOS	Q1	Composite Structure / FEM
3.	Post-Impact Investigation of CFRP Laminated Plate	Jurnal Teknologi	2014	0.6	WOS	Q3	Composite Structure
4.	Thickness-Dependent Non-Fickian Moisture Absorption In Epoxy Molding Compounds	Microelectronics Reliability	2016	1.6	WOS	Q3	Composite Structure
5.	Effect of Layering Pattern on Mechanical And Water Absorption	Jurnal Teknologi	2017	0.6	WOS	Q3	Composite Structure



	Properties of Glass/Flax Reinforced Epoxy						
6.	Impact Resistance of Short Bamboo Fibre Reinforced Polyester Concretes	Proceedings Of The Institution Of Mechanical Engineers, Part L: Journal Of Materials: Design And Applications	2017	1.625	WOS	Q3	Composite Structure
7.	Cohesive Zone Modelling of Mode III Delamination Using The Edge Crack Torsion Test	Journal Of Mechanical Engineering And Sciences	2017	1.1	WOS	Q4	Composite Structure / FEM
8.	Numerical Simulation Methodology For Mode II Delamination of Quasi-Isotropic Quasi-Homogeneous Composite Laminates	Journal Of Composite Materials	2017	2.3	WOS	Q3	Composite Structure / FEM
9.	Crack Length Dependence of Mode III Delamination Using Edge Crack Torsion Test	International Journal Of Mechanical Engineering And Robotics Research	2017	-	Scopus	-	Composite Structure
10	Oblique Impact Behavior of Unidirectional Natural Fiber Reinforced Composites	International Journal Of Advanced And Applied Sciences	2018	0.4	WOS	Q4	Composite Structure
11	Mode I And Mode II Delamination of A Chopped Strand Mat E-Glass Reinforced Vinyl Ester Composite	Plastics Rubber And Composites	2018	2.1	WOS	Q3	Composite Structure
12	Mode I Delamination Behaviour of Carbon/Epoxy Composite At Different Displacement Rates	Composites Part B: Engineering	2019	6.864	WOS	Q1	Composite Structure
13	Aligned Discontinuous Carbon Fibre Tows In Hybrid Composites And Their Tensile Behaviour: An Experimental Study	Journal of Composite Materials	2019	2.3	WOS	Q3	Composite Structure
14	Thermo-Mechanical Characterisation And Modelling of GFRP Laminated Aluminium	Composites Part B: Engineering	2019	6.864	WOS	Q1	Composite Structure
15	Strain Rates Effect of Dynamic Compression Properties of E-Glass/Jute Composite	Journal Of Mechanical Engineering And Sciences	2020	1.1	WOS	Q4	Composite Structure
16	Displacement Rate Effects on The Mode II Shear Delamination Behavior of Carbon Fiber/Epoxy Composites	Polymers	2021	3.426	WOS	Q1	Composite Structure
17	Experimental and numerical Investigation of Humid Ageing Effects on CFRP Laminates crashworthiness behaviours	Int Journal of Crashworthiness	2021	1.8	WOS	Q3	Composite Structure
18	Preliminary Structural Design of Coreless Spoiler by Topological Optimization	Processes	2022	2.8	WOS	Q2	Composite Structure
19	Tensile Characterizations of Oil Palm Empty Fruit Bunch (OPEFB) Fibres	Biointerface Research in	2022	-	WOS	-	Composite Structure

	Reinforced Composites in Various Epoxy/Fibre Fractions	Applied Chemistry					
20	Displacement Rate Effects on Mixed-mode I/II Delamination of Laminated Carbon/Epoxy Composites	Polymer Testing	2022	4.282	WOS	Q1	Composite Structure
21	Experimental Investigation of The Axial Crushing Response of Flax/glass Eco-hybrid Self-Supporting Web Composites	Fibers	2022	4.0	WOS	Q2	Compoite Structure
22	A Numerical Algorithm For Grease-Lubricated Point Contact at Different Regimes of Lubrication	Jurnal Tribologi	2022	-	Scopus	-	Tribologi
23	Energy Absorption Behavior of Oil Palm Empty Fruit Bunch Fiber-Reinforced Composites Subjected to Low-Velocity Impact	Journal Of Reinforced Plastics and Composites	2023	2.3	WOS	Q2	CompositeStruc ture
24	Digital Image Correlation Technique for Failure and Crack Propagation of Fibre-Reinforced Polymer Composites - A Review	Composites and A dvanced Materials	2024	1.7	WOS	Q3	Composite Structure
25	A new cohesive-based modelling of moisture-dependent mode II delamination of carbon/epoxy composites	Journal of Materials Research and Technology	2024	6.2	WOS	Q1	Composite Structure
26	Investigation of tensile pseudo-ductility behavior of flax fiber in hybrid composites laminates	Journal of Aeronautics, Astronautics And Aviation	2025	0.9	WOS	Q3	Composite Structure
27	Investigation of mode I interlaminar fracture toughness recycle carbon in hybrid composite	Journal of Aeronautics, Astronautics and Aviation	2025	0.9	WOS	Q3	Composite Structure
28	Fiber-reinforced thermoplastic composites for future use in aircraft radomes: Biomimetic design approaches and its performances	Fibers and Polymers	2025	2.2	WOS	Q1	Composite Structure

### NON-INDEXED JOURNAL ARTICLES

No	Article Title	Journal Title	Publication Year	Category of Publication	Niche
1.	Experimental Investigation of Pure Bamboo Plate Under Quasi-Static Indentation Test	Journal of Transport System Engineering	2015	Journal Article	Composite Structure
2.	Effect of Stacking Sequence on The Tensile And Flexural Properties of Glass Fibre Epoxy Composites Hybridized With Basalt, Flax or Jute Fibres	Material Science And Engineering With Advanced Research	2016	Journal Article	Composite Structure
3.	Compressive Properties of Hawaiian Gold Timber Bamboo under Different Conditions	Journal of Advanced Research In Applied Mechanics	2016	Journal Article	Composite Structure
4.	An Overview of Using Unmanned Aerial Vehicle As An Alternative Solution For Cloud Seeding Process	Journal of Transport System Engineering	2016	Journal Article	UAV

5.	Structural Design of Uav Semi-Monoque Composite Wing	Journal of Transport System Engineering	2016	Journal Article	Composite Structure
6.	Mechanical Properties of Bamboo And Bamboo Composites: A Review	Journal of Advanced Research In Materials Science	2017	Journal Article	Composite Structure
7.	Numerical Modelling Strategies For Composite Structures Crashworthiness: A Review	Journal of Advanced Research In Materials Science	2018	Journal Article	Composite Structure
8.	Effect of Fiber Misalignment on Tensile Response of Unidirectional CFRP Composite Lamina	Journal of Advanced Research In Applied Sciences And Engineering Technology	2018	Journal Article	Composite Structure
9.	Experimental Investigation of Tensile Properties of Eco-Composite Laminates	Jurnal Mekanikal	2018	Journal Article	Composite Structure
10.	Tensile Behaviour of Hybrid Composites Between Glass and Short Carbon Fibres	Jurnal Mekanikal	2020	Journal Article	Composite Structure
11.	Notch-Sensitivity of Hybrid Recycled Carbon Fiber Composites	The Engineer Story	2024	Journal Article	Composite Structure
12.	Experimental Flutter Analysis With Bending-Torsion Coupling	Journal of Aerospace Society Malaysia	2024	Journal Article	Composite Structure
13.	Stress Concentration Factor of Notched Hybrid Recycled Carbon Composite	Journal of Transport System Engineering	2024	Journal Article	Composite Structure

## INDEXED CONFERENCE PROCEEDINGS

No	Proceeding Title	Conference	Publication Year	Type of Publication	Role	Niche
1.	Finite Element Modelling Of CFRP Plates Under Crushing	The 18th International Conference on Composite Material	2011	Scopus	First Author	Composite Structure
2.	Experimental Test to Identify The Mean Crushing Stress Of 0° And 90° Unidirectional Plies Inside A Laminate	15th European Conference on Composite Materials	2012	Scopus	First Author	Composite Structure
3.	Numerical Modeling of [0°/90°] Cfrp Laminated Plates Under Low Velocity Crushing	8th Asian-Australasian Conference on Composite Materials 2012	2012	Scopus	First Author	Composite Structure
4.	Numerical Simulations Of Mixed-Mode II+III Delamination in Carbon/Epoxy Composite Laminate	Conference on Asia Simulation, Asiasim 2017	2017	Scopus	First Author	Composite Structure
5.	Indentation and Low Velocity Impact Properties Of Woven E-Glass Hybridization With Basalt, Jute and Flax Toughened Epoxy Composites	3rd International Conference on Power Generation Systems and Renewable Energy Technologies (Pgsret 2017)	2018	Scopus	UTM First Author	Composite Structure

6.	Dynamic Compression Properties of E-Glass/Basalt And E-Glass/Flax Using SHPB	6th Mechanical Engineering Research Day (Merd'19)	2019	WOS	Co-Author	Composite Structure
7.	Flatwise and Edgewise Compression Properties of Composite Pla Core Fabricated Via Additive Manufacturing Technique	7th International Conference and Exhibition on Sustainable Energy And Advanced Materials (Ice-Seam 2021)	2022	Scopus	Co-Author	Composite Structure

## NON-INDEXED CONFERENCE PAPERS

No	Proceeding Title	Conference	Publication Year	Role	Niche
1	Modélisation par éléments finis de l'écrasement de stratifiés d'unidirectionnels carbone/époxy à faible vitesse.	Les Journées Nationales sur les Composites. JNC-18, Nantes, France	2013	Co-Author	Composite Structure
2.	Mechanical and Physical Properties of Glass/Flax Reinforced Epoxy on Tensile, Flexural and Water Absorption	5th International Conference On Design And Concurrent Engineering (Idecon 2016)	2016	Co-Author	Composite Structure
3.	Crashworthiness Behavior of Pure Bamboo Plate	1st Multi-disciplinary Conference on Mechanical Engineering 2016	2016	Corresponding Author	Composite Structure
4.	Mode II Delamination of Chopped Strand Mat E-Glass Reinforced Vinyl Ester Composite	1st Multi-disciplinary Conference on Mechanical Engineering 2016	2016	Corresponding Author	Composite Structure
4.	A Review on Stab and Spike Resistance Performance of Shear Thickening Fluids (Stf) Impregnated Fabrics	12th International Conference on Latest Trends In Engineering and Technology (Icltet'2017)	2017	Co-Author	Composite Structure
5.	Crashworthiness Behavior of Eco-Hybrid Composite For Fuselage Subfloor Application	3rd South East Asia Workshop on Aerospace Engineering	2018	Corresponding Author	Composite Structure
6.	Dynamic Compression Properties of E-Glass/Basalt And E-Glass/Flax Using SHPB	The 6th Mechanical Engineering Research Day (Merd'19)	2019	Co-Author	Composite Structure
7.	Experimental Investigation of The Axial Crushing Response of Flax/Glass Eco-Hybrid Composites For Fuselage Subfloor Application	Mechanical Engineering Multi-Conference (Memc) 2019	2019	Corresponding Author / Presenter	Composite Structure
8.	Humid Ageing Effects on The Crashworthiness Behaviours of CFRP Laminates	Southeast Asia Workshop on Aerospace Engineering 2019	2019	Corresponding Author / Presenter	Composite Structure
9.	Effective Action Leads To Positive Impacts	Leadership Symposium 2020	2020	Corresponding Author / Presenter	Leadership
10.	Preliminary Structural Design of Coreless Spoiler by Topological Optimization	1st International Seminar on Aeronautics and Energy 2021	2021	Corresponding Author / Presenter	Composite Structure
11.	Experimental Flutter Analysis of Composite Wings with Bending-Torsion Coupling	3rd International Seminar on Aeronautics and Energy (Isae) 2023	2023	Corresponding Author	Composite Structure

12.	Stress Concentration Factor of Notched Hybrid Recycled Carbon Composite	3rd International Seminar on Aeronautics and Energy (Isae) 2023	2023	Corresponding Author	Composite Structure
13.	Investigation of Tensile Pseudo-Ductility Behavior of Flax Fiber In Hybrid Composites Laminates	The 7th Southeast Asia on Aerospace Engineering (Sawae 2023)	2023	Corresponding Author / Presenter	Composite Structure
14.	Tensile Behaviors And Stress Concentration of Hybrid Glass and Recycled Carbon Fiber Composites	The 7th Southeast Asia on Aerospace Engineering (Sawae 2023)	2023	Corresponding Author	Composite Structure

### BOOK CHAPTERS (INDEXED & NON INDEXED)

No	Chapter Title	Book Title	ISSN and Year	Type of Publication	Role	Niche
1.	A Review on The Interfacial Characteristics of Natural Fibre Reinforced Polymer Composites	Interfaces In Particle And Fibre Reinforced Composites:	978-008102665-6 (2019)	Indexed (Scopus)	UTM First Author	Composite Structure
2.	Coreless Spoiler Structural Design and Analysis	Aeronautical Analysis Via Experimental And Computational Approaches	978-983-52-1711-1 (2020)	Indexed (WOS)	Corresponding Author	Composite Structure
3.	Flexural Behaviour of Quasi-Isotropic Quasi-Homogeneous Woven Glass/Polyester Composite Laminates	Lightweight Materials For Structural Applications	978-983-52-1703-6 (2020)	Indexed (WOS)	UTM First Author	Composite Structure
4.	Characterisation of Mixed-Mode I-II-III Delamination In Composite Laminates	Fracture Failure Analysis Of Fiber Reinforced Polymer Matrix Composites	978-981-16-0642-7 (2022)	Indexed (Scopus)	Co-Author	Composite Structure
5.	Compressive Behaviour of Bamboo Plate	Engineering Materials For Specific Application: Mechanical Properties	978-983-52-1239-0 (2016)	Non-Indexed	Corresponding Author	Composite Structure
6.	The Influence of Different Glass/Polyester Laminates Designs Under High Localised Point Loading	Structural Composites: Mechanical Properties And Behaviour	978-983-52-1454-7 (2016)	Non-Indexed	Corresponding Author	Composite Structure
7.	Effective Leadership: Flying Higher	Rising Above Crisis in Turbulent Times	978-967-2454-69-4 (2021)	Non-Indexed	Corresponding Author	Leadership
8.	Flexural Behaviour of Glass/Flax Hybrid Composite for Vehicles Structural Applications	Reinforced And Porous Materials For Structural Applications	978-983-52-1933-7 (2023)	Non-Indexed	Corresponding Author	Composite Structure

**PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST SPEAKER**

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1.	Chair Person	1st Multidisciplinary Conference on Mechanical Engineering (McME 2016)	29 Nov 2016	UTM, Johor Bahru
2.	Chair person	4 <sup>th</sup> Southeast Asia Workshop on Aerospace Engineering, SAWAE 2019	30 Aug 2019	Residensi UTMKL, Kuala Lumpur
3.	Chair person	ISAE 2021	28 Aug 2021	Virtual session
4.	Chair person	ISAE 2022	17 Sept 2022	Virtual session
5.	Chair person	ISAE 2023	25 Oct 2023	Residensi UTMKL, Kuala Lumpur
6.	Chair person	8th Southeast Asia Workshop on Aerospace Engineering, SAWAE 2023	16 Nov 2023	Kasetsart University, Bangkok, Thailand
7.	Invited Guest Speaker	Defend Service Asia, 2024	7 May 2024	Mitec, Kuala Lumpur.

**PROFESSIONAL SERVICES**

**Examiner/Reviewer**

**1. Academic Program**

NO	ROLE	ACADEMIC PROGRAM	INSTITUTION
1.	Board of Studies	Bachelor of Aerospace Engineering with Honours	i-CAT, Sarawak
2.	External Examiner	Bachelor of Aerospace Engineering with Honours	i-CAT, Sarawak

**2. Research Grant Examiner**

NO	NAME OF GRANT	NAME OF RESEARCH PROJECT	TYPE OF GRANT
1.	UTM TIER 1 (2016)	In-Situ Grafting Of Carbon Nanotubes Onto Carbon Fibre Via Novel Flame Synthesis With Water-Assisted Approach	UTM Internal Grant
2.	UTM TIER 1 (2017)	Reflection Of Acoustic Wave In Real Atmosphere For Hypersonic Boundary Layer Control	UTM Internal Grant
3.	UTM PAS (2024)	Failure Prediction Of A Reinforced Thermoplastic Pipe (Rtp) Through Surrogated Optimization Method	UTM Internal Grant

**Consultation and Training**

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION	TOTAL INCOME GENERATED (RM)	Vot
1.	Member	Advanced course on Design and Analysis of Aerospace Structures. Client: Aeronautic Research Center, Sudan.	Oct-Dec 2015	Aerolab, UTM	RM60,000	A.J.090705.5500.07134

2.	Member	Finite element analysis of safety door. Client: New Edge Safety Door Sdn Bhd	Aug-Dec 2016	Aerolab, UTM	RM7,557.80	A.J.090705.5500.07134
3.	Member	Finite Element Analysis of Sheet Roof. Client Mulford Plastic (M) Sdn Bhd	Jan-Mac 2018	Aerolab, UTM	RM2756.00	A.J.090705.5500.07134
4.	Member	CFD and FEA Evaluation of Governor Valve. Client: Petronas Gas Berhad/MIE Offshore Solutions Sdn. Bhd.	July 2018 – Mac 2019	Aerolab, UTM	RM48,500	A.J.090705.5500.07134
5.	Head of Project	UniKL Aircraft Structures Modul Training	Jan-Feb 2024	UniKL MIAT	RM20,000	A.J240000.6600.06113

### **Indexed-Journal Reviewer**

NO	ARTICLE	JOURNAL	YEAR	Field
1.	Validation of UAV wing structural model for finite element analysis	Jurnal Teknologi (ISI)	2014	Aeronautical Eng.
2.	Static and Dynamic Balancing of helicopter tail rotor blade using two-plane balancing method	Jurnal Teknologi (ISI)	2014	Aeronautical Eng.
3.	Structural Analysis of UTM Single-seat helicopter chasis	Jurnal Teknologi (ISI)	2014	Aeronautical Eng.
4.	Loading rate effect on flexural and indentation behavior of foam core composite sandwich panel	Jurnal Teknologi (ISI)	2014	Composite structure
5.	Influence of Slit angle on compressive properties and crushing failure in UACS laminate with bi-angle slits	Journal of Composite Materials (ISI)	2015	Composite structure
6.	Numerical study of aerodynamic characteristics on blended wing body aircraft with small canard	Pertanika Journal of Science & Technology (Scopus)	2016	Aeronautical Eng.
7.	In-plane crushing and energy absorption of a composite corrugated panel: experimental and numerical investigation	Journal of Composite Materials (ISI)	2017	Composite structure
8.	Experimental study of multi-impact loading on composite laminates	Journal of Composite Materials (ISI)	2018	Composite structure
9.	Compression and tensile properties of pineapple leaf fibre reinforced polylactic acid composites	Facta Universitatis, Series: Mechanical Engineering (ISI)	2018	Composite structure
10.	The effects of variant unit cell and thickness of trapezoidal carbon/epoxy composite sandwich panel	Facta Universitatis, Series: Mechanical Engineering (ISI)	2018	Composite structure
11.	Investigation on Effect of Thickness of Laminate and Impactor Shape on Low Velocity Impact Behaviour of Jute-Epoxy Composite Laminate	Engineering Science and Technology, An International Journal (Scopus)	2018	Composite structure
12.	Damages prediction in a composite material at low velocity impact: review	International Journal of Engineering and Technology (Scopus)	2018	Composite structure
13.	Experimental study and finite element analysis based on progressive damage of the flexural behaviour of CFRP box girders	Advanced Composite Letters (Scopus)	2019	Composite structure

14.	Composite wing flutter analysis with variations of ribs location	Journal of Aeronautics, Astronautics and Aviation (ISI)	2019	Aeronautical Eng.
15.	Dynamic modeling and simulation for tricopter	Journal of Aeronautics, Astronautics and Aviation (ISI)	2019	Aeronautical Eng.
16.	Effect of different laminate ply orientations on flutter of composite UAV wing	Journal Of Advanced Research in Fluid Mechanics and Thermal Sciences (Scopus)	2019	Aeronautical Eng. / Composite Structure
17.	Dynamics modelling and parameter identification of a novel hybrid uav using maximum likelihood	Journal of Aeronautics, Astronautics and Aviation (ISI)	2019	Aeronautical Eng.
18.	Experimental and numerical investigation on impact and post-impact behaviours of h-shaped steel members	Engineering Structures (ISI)	2020	Applied Mechanics
19.	Personalized customization method of hybrid human model for pedestrian-vehicle accident reconstruction	Journal Of Mechanics In Medicine And Biology (ISI)	2020	Applied Mechanics
20.	The temperature effects on the low-velocity impact behavior of fiber metal laminates with superelastic shape memory alloy wires	Journal of Composite Materials (ISI)	2020	Composite structure
21.	Experimental and theoretical investigation of steel-reinforced bamboo scrimber beams	Engineering Structures (ISI)	2020	Composite structure
22.	Measurement and finite element analysis of the load-dependent pressure redistribution behavior of various types of mattresses	Journal of Mechanics in Medicine and Biology (ISI)	2020	Applied Mechanics
23.	A biomechanical study of the effects of flexion angle on the induction mechanism of cervical spondylosis	Journal of Mechanics in Medicine And Biology (ISI)	2021	Applied Mechanics
24.	Comparison of the ballistic impact performance and the effect of shear on delamination of an elastomer matrix composite with thermoset composite	Journal of Composite Materials (ISI)	2021	Composite structure
25.	Structural analysis of flexible metal wheel in the application of lunar rover vehicle	Journal of Aeronautics, Astronautics and Aviation (ISI)	2022	Aeronautical Eng.
26.	Low velocity impact studies on glass fiber reinforced polyester composites modified with silane treated alumina nanofibers	Journal of Composite Materials (ISI)	2022	Composite structure
27.	Effect of hybrid materials configuration on the mechanical properties of composites	Journal of Applied Science and Engineering (ISI)	2022	Composite structure
28.	Thermal insulation enhancement of microporous core panels using aerogel coating/paint	Scientific.Net (Scopus)	2023	Composite structure
29.	Thermomechanical performance of shape memory alloy spring by homogeneous distribution of temperature review instructions	Journal of Aeronautics, Astronautics and Aviation (ISI)	2023	Applied Mechanics.
30.	Experimental investigation of the vibration amplitude of the belt membrane on the output power of a small windbelt generator	Journal of Aeronautics, Astronautics and Aviation (ISI)	2023	Applied Mechanics



31.	Study on variations of potting diameter for a potted insert honeycomb panel under pull-out loading	Journal of Aeronautics, Astronautics and Aviation (ISI)	2024	Composite structure
32.	Research on wing impact damage detection based on FBG Smart interlayer and BAS-LSSVM	Journal of The Brazilian Society of Mechanical Sciences and Engineering (ISI)	2024	Aeronautical Eng.
33.	Structural analysis of strut-braced main spar using composite material for Seaplane	Journal of Aeronautics, Astronautics and Aviation (ISI)	2024	Composite structure
34.	Study on the damage performance and sensitivity of thin-walled carbon fiber tubes to low-energy transverse impact	Applied Composite Materials (ISI)	2024	Composite structure
35.	Simplified topological toughness maps as tools to assess the performances recovery of hybridized natural fiber reinforced composites subjected to alternate salt-fog/dry cycle	Facta Universitatis Series: Mechanical Engineering (ISI)	2024	Composite structure
36.	Development of an autonomous precision landing system for quadrotor unmanned aerial vehicles (uav)	Journal of Aeronautics, Astronautics and Aviation (ISI)	2024	Aeronautical Eng.
37.	Synthesis of tio2 nanoparticles and hydrothermal synthesis of carbon nano dots (cds) from curcuma longa (turmeric) for structural assessment in cds + tio2 polymer composites	Facta Universitatis Series: Mechanical Engineering (ISI)	2024	Composite structure
38.	Assessment of the use of mini drones in 3d modelling and anomalies detection on utility poles' exterior state	Journal of Aeronautics, Astronautics and Aviation (ISI)	2024	Aeronautical Eng.
39.	Parametric study of bonded composite joints under mixed-mode	Journal of Composite Materials (ISI)	2024	Composite Structure
40.	Numerical simulation of the damage characteristics of carbon fiber- reinforced aluminum laminates under hypervelocity impact based on the FE-SPH adaptive method	Applied Composite Materials (ISI)	2024	Composite Structure