CURRICULUM VITAE

Prof. Ir. Dr. Haji Kamarul Arifin Bin Ahmad
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Education

1. **PhD. In Aeronautical Engineering**, 2006, Queen's University of Belfast
2. **MSc. In Aerospace Dynamics (Aerodynamics),** 2002, Cranfield University
3. **BEng. In Aerospace Engineering**, 2001, Universiti Sains Malaysia

Areas of Interest

1. **Aerodynamics:** Aircraft and Automotive Aerodynamics, Flow Control via Vortex Generators, Wind Tunnel Testing (component balance, PIV), Rocket Technology (solid propellant, rocket body and recovery)
2. **Computational Fluid Dynamics:** Fluid Structure Interaction (FSI) simulations, CFD in Biomedical Engineering, Laminar and Turbulence Flow Modeling, Internal and External Flow Modeling

Appointments

No.	Position	Location	Duration
1.	**Director**	Putra Science Park, UPM	1.5.2022-present
2.	**Head**	Department of Aerospace Engineering, UPM	1.10.2020-30.4.2022
3.	**Head**	Aerospace Malaysia Research Centre (AMRC) UPM	1.8.2018-30.9.2020
4.	**Professor**	Department of Aerospace Engineering, UPM	1.10.2021-present
5.	**Associate Professor**	Department of Mechanical Engineering, KSU Saudi Arabia	1.10.2016-15.7.2018
6.	**Research Associate**	Aerospace Manufacturing Research Centre (AMRC) UPM	2012-2016
7.	**Associate**	Department of Aerospace	13.3.2012-

	Professor	Engineering, UPM	30.9.2021
8.	**Deputy Dean**	School of Aerospace Engineering, Universiti Sains Malaysia	Jan 2010- Dec 2011
9.	**Senior Lecturer**	School of Aerospace Engineering, Universiti Sains Malaysia	August 2008-March 2012
10.	**Program Chairman**	School of Aerospace Engineering, Universiti Sains Malaysia	Nov 2007-Dec 2009
11.	**Lecturer**	School of Aerospace Engineering, Universiti Sains Malaysia	Dec 2006-July 2008
12.	**Research Assistant**	Centre of Integrated Aircraft Technology (CIAT) Northern Ireland, UK	Jan 2006-June 2006
13.	**Lab Demonstrator**	School of Aerospace & Mechanical Engineering, Queen's University of Belfast, UK	Jan 2003-Dec 2005

Teaching Experiences

No.	Semester	Course	Student	Credit
1..	Sem 1, 2020/2021	EAS 4201, Computational Fluid Dynamics (UPM)	>40	3
2.	Sem 1, 2020/2021	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
3.	Sem 2, 2019/2020	EAS 3204, Aerodynamics II	>40	3
4.	Sem 1, 2019/2020	Solid Propellant	<40	3
5.	Sem 1, 2019/2020	EAS 4201, Computational Fluid Dynamics (UPM)	>40	3
6.	Sem 2, 2018/2019	EAS 3204, Aerodynamics II	>40	3
7.	Sem 1, 2018/2019	EAS 3924, Flight Lab For Agricultural Application (UPM)	<40	1
8.	Sem 1, 2018/2019	EAS 4201, Computational Fluid Dynamics (UPM)	<40	3
9.	Sem 1, 2018/2019	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
10.	Sem 2, 2017/2018	GE 202, Dynamics (KSU) Session 29650	<40	3
11.	Sem 2, 2017/2018	GE 202, Dynamics (KSU) Session 35136	<40	3
12.	Sem 2,	GE 202, Dynamics (KSU)	<40	3

	2017/2018	Session 35661		
13.	Sem 2, 2017/2018	GE 105, Engineering Design (KSU) Session 35539	<40	3
14.	Sem 1, 2017/2018	GE 202, Dynamics (KSU) Session 29831	<40	3
15.	Sem 1, 2017/2018	GE 202, Dynamics (KSU) Session 46912	<40	3
16.	Sem 1, 2017/2018	GE 105, Engineering Design (KSU) Session 29782	<40	3
17.	Sem 1, 2017/2018	GE 105, Engineering Design (KSU) Session 38150	<40	3
18.	Sem 2, 2016/2017	GE 202, Dynamics (KSU) Session 6121	<40	3
19.	Sem 2, 2016/2017	GE 202, Dynamics (KSU) Session 35136	<40	3
20.	Sem 2, 2016/2017	GE 105, Engineering Design (KSU) Session 30620	<40	3
21.	Sem 1, 2016/2017	GE 105, Engineering Design (KSU) Session 29791	<40	3
22.	Sem 1, 2016/2017	GE 105, Engineering Design (KSU) Session 38150	<40	3
23.	Sem 1, 2015/2016	EAS 4201, Computational Fluid Dynamics (UPM)	<40	3
24.	Sem 1, 2015/2016	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
25.	Sem 2, 2014/2015	EAS3511, Aerothemodynamics (UPM)	<40	3
26.	Sem 2, 2014/2015	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
27.	Sem 1, 2014/2015	EAS 4201, Computational Fluid Dynamics (UPM)	<40	3
28.	Sem 1, 2014/2015	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
29.	Sem 2, 2013/2014	EAS5955, Special Topics (UPM)	<40	3
30.	Sem 2, 2013/2014	EAS3511, Aerothemodynamics (UPM)	<40	3
31.	Sem 1, 2013/2014	EAS 4201, Computational Fluid Dynamics (UPM)	<40	3
32.	Sem 1, 2013/2014	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
33.	Sem 2, 2012/2013	EAS3511, Aerothemodynamics (UPM)	<40	3
34.	Sem 2, 2012/2013	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
35.	Sem 1, 2012/2013	EAS3202, Aerodynamics 1 (UPM)	<40	3
36.	Sem 2, 2011/2012	EAS 5201, Computational Fluid Dynamics (UPM)	<40	3
37.	Sem 1, 2011/2012	ESA 343, Aircraft Aerodynamics 1 (USM)	<40	3

38.	Sem 1, 2011/2012	EME451, Computational Fluid Dynamics (USM)	<40	3
39.	Sem 2, 2010/2011	ESA472, Aircraft Design II (USM)	<40	3
40.	Sem 2, 2010/2011	ESA 414, Aerospace Policy and Management (USM)	<40	3
41.	Sem 1, 2010/2011	ESA 343, Aircraft Aerodynamics 1 (USM)	<40	3
42.	Sem 1, 2010/2011	EME451, Computational Fluid Dynamics (USM)	<40	3
43.	Sem 1, 2010/2011	ESA471, Aircraft Design I (USM)	<40	3
44.	Sem 2, 2009/2010	ESA472, Aircraft Design II (USM)	<40	3
45.	Sem 2, 2009/2010	ESA 414, Aerospace Policy and Management (USM)	<40	3
46.	Sem 2, 2009/2010	ESA 341, Gas Dynamics (USM)	<40	3
47.	Sem 1, 2009/2010	ESA471, Aircraft Design I (USM)	<40	3
48.	Sem 1, 2009/2010	ESA 343, Aircraft Aerodynamics 1 (USM)	<40	3
49.	Sem 2, 2008/2009	ESA472, Aircraft Design II (USM)	<40	3
50.	Sem 2, 2008/2009	ESA 341, Gas Dynamics (USM)	<40	3
51.	Sem 1, 2008/2009	ESA471, Aircraft Design I (USM)	<40	3
52.	Sem 1, 2008/2009	ESA 343, Aircraft Aerodynamics 1 (USM)	<40	3
53.	Sem 2, 2007/2008	ESA 341, Gas Dynamics (USM)	<40	3
54.	Sem 2, 2007/2008	ESA 242, Aerospace Thermodynamics (USM)	<40	3
55.	Sem 1, 2007/2008	ESA 343, Aircraft Aerodynamics 1 (USM)	<40	3
56.	Sem 1, 2007/2008	ESA 243, Aerodynamics (USM)	<40	3
57.	Sem 2, 2006/2007	ESA 242, Aerospace Thermodynamics (USM)	<40	3
58.	Sem 2, 2006/2007	ESA 341, Gas Dynamics (USM)	<40	3

Publications

Scopus H Index = 21, Author ID: 57193453378

Journals (No of JCR= 100, No of Scopus= 163)

2023

1. Corda, J.V., Zuber, M., **Ahmad, K.A**., Lewis, L., Koteshwar, P."A Computational Fluid Dynamics Study on the Airflow Patterns in Infant and Adult", AIP Conference Proceedings, 2023, 2764(1), 070001
2. Feng, K., Yanagita, Y., Miyamura, Y., ...**Ahmad, K.A**., Tamagawa, M., "Fundamental Investigation On Ventilation Methods Of Indoor Air For Preventing Infactions By Computational Fluid Dynamics Analysis", ICIC Express Letters, 2023, 17(10), pp. 1103–1110
3. Basri, E.I., Basri, A.A., **Ahmad, K.A**., "Computational Fluid Dynamics Analysis in Biomimetics Applications: A Review from Aerospace Engineering Perspective", Biomimetics, 2023, 8(3), 319
4. Yanagita, Y., Feng, K., Miyamura, Y., ...**Ahmad, K.A**., Tamagawa, M., "Evaluation of Virus Concentration Analysis in the Airway by CFD", Journal of Advanced Research in Numerical Heat Transfer, 2023, 13(1), pp. 96–105
5. Yaacob, I.N., Mazlan, N., **Ahmad, K.A**., ...Salleh, N., Shahedi, S., "Reduction of HCl Exhaust Products in AP /HTPB Propellants by Different Metal Additives Using Rocket Propulsion Analysis", Defence S and T Technical Bulletin, 2023, 16(2), pp. 125–139
6. Yaacob, I.N., Asli, A.F., Norkhairunnisa, M., **Ahmad, K. A**., Salleh, N.A., Shahedi, S., "A review on viscoelastic behaviour of plasticizers in ap/al/htpb based composite solid propellant", Materials Today: Proceedings, 2023
7. Chen, A., Basri, A.A., Ismail, N.B., **Ahmad, K.A**., "The Numerical Analysis of Non-Newtonian Blood Flow in a Mechanical Heart Valve", Processes, 2023, 11(1), 37
8. Valerian Corda, John, Satish Shenoy B., **Arifin Ahmad, Kamarul**, Lewis, Leslie, Prakashini K., Rao, Anoop, Zuber, Mohammad, "Micro- and nanoparticle transport and deposition in a realistic neonatal and infant nasal upper airway", International Journal of Modelling and Simulation, 2023, DOI 10.1080/02286203.2022.2164155
9. Chen, Aolin, Azriff Basri, Adi, Ismail, Norzian Bin; **Arifin Ahmad, Kamarul**, "Hemodynamic Effects of Subaortic Stenosis on Blood Flow Characteristics of a Mechanical Heart Valve Based on OpenFOAM Simulation", Bioengineering, 2023, 10(3), 312
10. Nasaruddin, M.H., Basri, A.A., Basri, E.I., Sultan, M.T.H.H., **Ahmad, K.A**., "Structural Analysis of Flexible Metal Wheel in the Application of Lunar Rover Vehicle", Journal of Aeronautics, Astronautics and Aviation Volume 55, Issue 1, Pages 1 - 121 March 2023
11. Dong, H., Abdul Aziz, N., Zulhaidi Mohd Shafri, H., **Arifin Bin Ahmad, K.**, "Computational fluid dynamics study on cemented paste backfill slurry: Review", Construction and Building MaterialsVolume, 10 March 2023, 130558
12. Zhu, D., Gires, E., Dong, H., Chen, A., **Ahmad, K.A**., "Review of Motion

Simulation of Particulate Matter in the Respiratory System and Further CFD Simulations on COVID-19", *Processes*, Volume 11, Issue 4 April 2023, Article number 1281

13. Singh, Spoorthi, Muralidharan, Aravind Karthik, Radhakrishnan, Jayakrishnan, Zuber, Mohammad, Basri, Adi Azriff, Mazlan, Norkhairunnis, Hamidon, Mohd Nizar, **Ahmad, Kamarul Arifin**, "Study of X-Pattern Crank-Activated 4-Bar Fast Return Mechanism for Flapping Actuation in Robo Drones", *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2023, 105(2), pp. 115–128
14. Singh, Spoorthi, Muralidharan, Aravind Karthik, Radhakrishnan, Jayakrishnan, Zuber, Mohammad, Basri, Adi Azriff, Mazlan, Norkhairunnis, Hamidon, Mohd Nizar, **Ahmad, Kamarul Arifin**, "Kinematic Investigations of a Novel Flapping Actuation Design with Mutually Perpendicular 3 Cylindrical Joint Approach for FW-Drones", Biomimetics, 2023, 8(2), 160

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15. Singh, S., Muralidharan, A.K., Radhakrishnan, J., ...Hamidon, M.N., **Ahmad, K.A**., "Parametric Study and Experimental Investigations of a Single Crank–Slotted Dual Lever Mechanism for MAV Flapping Actuation", *Biomimetics*, 2022, 7(4), 208
16. Ballambat, R.P., Zuber, M., Khader, S.M.A., ...**Ahmad KA**, Kamath, S.G., Shuaib, I.L., "Influence of postural changes on haemodynamics in internal carotid artery bifurcation aneurysm using numerical methods", *Visual Computing for Industry, Biomedicine, and Art*, 2022, 5(1), 11
17. Corda, J.V., Shenoy, B.S., Lewis, L., ...**Ahmad, K.A**., Zuber, M., "Nasal airflow patterns in a patient with septal deviation and comparison with a healthy nasal cavity using computational fluid dynamics", *Frontiers in Mechanical Engineering*, 2022, 8, 1009640
18. Abas, M.F.B., Singh, B., **Ahmad, K.A**., ...Khan, T., Sebaey, T.A., "Dwarf Kingfisher-Inspired Bionic Flapping Wing and Its Aerodynamic Performance at Lowest Flight Speed", *Biomimetics*, 2022, 7(3), 123
19. Faris, A.F.A., Basri, A.A., Basri, E.I., Sultan, M.T.H., **Ahmad, K.A.**, "Aerodynamics Effects of APC Slow Flyer Propeller Blade Design with Different Airfoil Origin Positions", *Journal of Aeronautics, Astronautics and Aviation*, 2022, 54(3), pp. 325–334
20. Dong, H., Aziz, N.A., Shafri, H.Z.M., **Ahmad, K.A**.., "Numerical Study on Transportation of Cemented Paste Backfill Slurry in Bend Pipe", *Processes*, 2022, 10(8), 1454
21. Singh, S., Zuber, M., Hamidon, M.N., ...Basri, A.A., **Ahmad, K.A**., "Classification of actuation mechanism designs with structural block diagrams for flapping-wing drones: A comprehensive review", *Progress in Aerospace Sciences*, 2022, 132, 100833
22. Abdullah, M.N., Mustapha, F., **Ahmad, K.A**., ...Singh, B., Sebaey, T.A., "Effect of Different Pre-Treatment on the Microstructure and Intumescent Properties of Rice Husk Ash-Based Geopolymer Hybrid Coating", ***Polymers***, 2022, 14(11), 2252
23. Zhu, D., **Ahmad, K.A**., Chen, A., "Research on flame recognition technology based on local complex features", *Journal of Physics: Conference Series*, 2022, 2246(1), 012074
24. Yamaguchi, T., Basri, A.A., **Ahmad, K.A**., Tamagawa, M., "PREDICTION OF THROMBUS FORMATION ON IMPINGING JET FLOW BY EULERIAN

COMPUTATIONAL FLUID DYNAMICS (CFD) –EFFECTS OF CONCENTRATION BOUNDARY CONDITIONS ON PLATELET ADHESION–“,*International Journal of Innovative Computing, Information and Control*, 2022, 18(2), pp. 657–666

25. Corda, J.V., Shenoy, B.S., **Ahmad, K.A**., ...Khader, S.M.A., Zuber, M., "Nasal airflow comparison in neonates, infant and adult nasal cavities using computational fluid dynamics”, *Computer Methods and Programs in Biomedicine*, 2022, 214, 106538
26. Al Qahtani, T., Yidris, N., Sulaiman, S., Yaakob, M.S., **Ahmad, K.A**., “Experimental Analysis of a Free-Swimming Water Pipe Leakage Sensor”, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2022, 100(1), pp. 116–136
27. Basri, E.I., Basri, A.A., Balakrishnan, S., Sultan, M.T.H.H., **Ahmad, K.A**., “Performance analysis of composite laminates wing skin with the aid of fluid structure interaction of aerodynamic loading-structural analysis”, *Mechanics Based Design of Structures and Machines*, 2022
28. Dong, H., Aziz, N.A., Shafri, H.Z.M., **Ahmad, K.A**., “Pipeline Transportation Characteristics of Different Cementing Materials in CPB Slurry”, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2022, 97(1), pp. 136–148
29. Yaacob, I.N.M., Singh, B., Mazlan, N., ...Shahedi, S., **Ahmad, K.A**., “Numerical Study of the AP/Al/HTPB Composite Solid Propellant based Combustion Process in a Small Retro Rocket Motor”, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2022, 96(2), pp. 98–114
30. Chen, A., Basri, A.A., Ismail, N., Zhu, D., **Ahmad, K.A**., “Numerical Study of Subaortic Stenosis and Pannus Formation on Blood Flow Around Mechanical Heart Valves”, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2022, 95(2), pp. 180–190
31. Aldhufairi, M., Muda, M.K.H., Mustapha, F., **Ahmad, K.A**., Yidris, N., “Design of Wind Nozzle for Nozzle Augmented Wind Turbine”, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 2022, 95(1), pp. 36–43
32. Khan, T., Singh, B., Sultan, M.T.H., **Ahmad, K.A.**, “Performance of a HAWTRotorwith aModified Blade Configuration”, *Pertanika Journal of Science and Technology*, 2022, 30(1), pp. 201–220
33. Chen, A., Basri, A.A.B., Ismail, N.B., ...Zhu, D., **Ahmad, K.A**., “Simulation of Mechanical Heart Valve Dysfunction and the Non-Newtonian Blood Model Approach”, *Applied Bionics and Biomechanics*, 2022, 2022, 9612296

2021

34. Hegde, P., Shenoy, B.G., Khader, S.M.A., ...Kumar, N., **Ahmad, K.A**., “CFD Analysis on Effect of Angulation in A Healthy Abdominal Aorta-Renal Artery Junction, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2021, 88(1), pp. 149–165

35. Hashim, M.K.R., Majid, M.S.A., Jamir, M.R.M., ...**Ahmad, K.A**., Basri, A.A., “The effect of stacking sequence on fatigue behaviour of hybrid pineapple leaf fibre/carbon-fibre-reinforced epoxy composites”, Polymers, 2021, 13(22), 3936

36. Singh, B., Ikhtiar, U., Firzan, M., Huizhen, D., **Ahmad, K.A**., "Numerical Analysis of a Mobile Leakage-Detection System for a Water Pipeline Network", Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2021, 87(1), pp. 134–150

37. Basri, E.I., Sultan, M.T.H., Basri, A.A., Mustapha, F., **Ahmad, K.A**., "Consideration of lamination structural analysis in a multi-layered composite and failure analysis on wing design application", Materials, 2021, 14(13), 3705

38. Faris, A.F.A., Basri, A.A., Basri, E.I., ...Sultan, M.T.H., **Ahmad, K.A**., "Propeller Design and Performance Evaluation by Using Computational Fluid Dynamics (CFD): A Review", Journal of Aeronautics, Astronautics and Aviation, 2021, 53(2), pp. 263–274

39. Corda, J.V., Shenoy, B.S., **Ahmad, K.A**., ...Khader, S.M.A., Zuber, M., "Nasal airflow comparison in neonates, infant and adult nasal cavities using computational fluid dynamics", Computer Methods and Programs in Biomedicine, 2021, 106538

40. Basri, A.A., Zuber, M., Basri, E.I., ...Tamagawa, M., **Ahmad, K.A**., "Fluid-Structure Interaction in Problems of Patient Specific Transcatheter Aortic Valve Implantation with and Without Paravalvular Leakage Complication", Fluid Dynamics and Materials Processing, 2021, 17(3), pp. 531–553

41. Singh, B., Yidris, N., Basri, A.A., Pai, R., **Ahmad, K.A.**, "Study of mosquito aerodynamics for imitation as a small robot and flight in a low-density environment", Micromachines, 2021, 12(5), 511

42. Almayas, A., Yaakob, M.S., Aziz, F.A., Yidri, N., **Ahmad, K.A.,** "CFD application for solid propellant rocket simulation: A review", CFD Letters, 2021, 13(1), pp. 84–95

2020

43. Zuber, M., Corda, J.V., Ahmadi, M., **Ahmad, KA**, ...Khan, M.A., Kamangar, S., "Investigation of coronavirus deposition in realistic human nasal cavity and impact of social distancing to contain COVID-19: A computational fluid dynamic approach", CMES - Computer Modeling in Engineering and Sciences, 2020, 125(3), pp. 1185–1199 (JCR ISI, SCOPUS)

44. Ariffin, A.H., **Ahmad, K.A**., "Computational fluid dynamic (cfd) simulation of synthetic jet cooling: A review", 2020, 72(72), pp. 103-112, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (Scopus)

45. Basri, A.A., Khader, S.M.A., Johny, C., ...Ahmad, Z., **Ahmad, K.A**., "Fluid structure interaction of renal arteries of abdominal aorta subjected to single and double stenosed complication", 2020, 16, pp. 35-41, Malaysian Journal of Medicine and Health Sciences(Scopus)

46. Moey, L.K., Goh, K.S., Tong, D.L., ...Adam, N.M., **Ahmad, K.A**., "A review on current energy usage and potential of sustainable energy in southeast asia countries", 2020, 15(2), pp. 89-107, Journal of Sustainability Science and Management(Scopus)

47. Al Mayas, A.A., Aolin, C., Aziz, F.A., Yidris, N., **Ahmad, K.A**., "Investigation of solid propellant rocket motor nozzle via CFD simulation", 2020, 68(2), pp. 1-8, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (Scopus)

48. Al Qahtani, T., Yaakob, M.S., Yidris, N., Sulaiman, S., **Ahmad, K.A**., "A Review on water leakage detection method in the water distribution network", 2020, 68(2), pp. 152-163, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (Scopus)

49. Zaki, M.M.M., Qahtani, T.A., Yidris, N., ...Yaakob, M.S., **Ahmad, K.A**., "Design and analysis of a water pipe leakage sensor", 2020, 12(9), pp. 51-59, CFD Letters (Scopus)

50. Basri, A.A., Zuber, M., Basri, E.I., ...Tamagawa, M., **Ahmad, K.A**., "Fluid Structure Interaction on Paravalvular Leakage of Transcatheter Aortic Valve Implantation Related to Aortic Stenosis: A Patient-Specific Case", 2020, 2020, 9163085, Computational and Mathematical Methods in Medicine (JCR ISI, Scopus)

2019

51. Basri, E.I., Mustapha, F., Sultan, M.T.H., ...Majid, M.S.A., **Ahmad, K.A**., "Conceptual design and simulation validation based finite element optimisation for tubercle leading edge composite wing of an unmanned aerial vehicle", 2019, 8(5), pp. 4374-4386, Journal of Materials Research and Technology (JCR ISI, Scopus)

52. Basri, E.I., Sultan, M.T.H., Faizal, M., ...Mandeep, J.S., **Ahmad, K.A**., "Performance analysis of composite ply orientation in aeronautical application of unmanned aerial vehicle (UAV) NACA4415 wing", 2019, 8(5), pp. 3822-3834, Journal of Materials Research and Technology (JCR ISI, Scopus)

53. Basri, E.I., Basri, A.A., Abas, M.F., ...Sltan, M.T.H., **Ahmad, K.A**., "UAV NACA4415 wing structural performance analysis subjected to external aerodynamic load using Schrenk's approximation", 2019, 60(2), pp. 178-190, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (Scopus)

54. Basri, E.I., Sultan, M.T.H., Faizal, M., Basri, A.A., **Ahmad, K.A., "**Unmanned aerial vehicle (UAV) structural and manufacturing of conventional and humpback tubercles leading edge (TLE) in aeronautical applications, 2019, 8(1), pp. 479-496, ", International Journal of Recent Technology and Engineering (JCR ISI, Scopus)

55. Taray, I.A., Rafie, A.S.M., Zuber, M**., Ahmad, K.A**., "Hydrodynamics of Bluefin Tuna – A Review", 2019, 64(2), pp. 293-303, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (JCR ISI, Scopus)

56. Hamad, A.A., Aftab, S.M.A., Zahari, R., Aziz, F.A., **Ahmad, K.A**., "Application of computational fluid dynamics in piping distribution system and special focus on the Arabian peninsula: A review", 2019, 13(1), pp. 1-10, International Review of Mechanical Engineering (Scopus)

57. Johny, C., Abdul Khader, S.M., Raghuvir Pai, B., ...Ahmed, **K.A., Ahmad**,, "Haemodynamic study of idealistic renal artery under different flow conditions", 2019, 19(2), pp. 541-552, Journal of Computational Methods in Sciences and Engineering (Scopus)

58. Basri, A.A., Khader, S.M.A., Johny, C., ...Ahmad, Z., **Ahmad, K.A**., "Effect of single and double stenosed on renal arteries of abdominal aorta: A computational fluid dynamics ", 2019, 12(1), pp. 87-97, CFD Letters (Scopus)

2018

59. Marzuki, O.F., Mohd Rafie, A.S., Romli, F.I., **Ahmad, K.A**., "Magnus wind turbine: the effect of sandpaper surface roughness on cylinder blades", Acta Mechanica, pp 71-85, Vol. 229 Issue 1, 2018 (JCR Q1, Scopus)

60. Alrazen, H.A., **Ahmad, K.A**., "HCNG fueled spark-ignition (SI) engine with its effects on performance and emissions", Renewable and Sustainable Energy Reviews, pp 324-342, Vol. 82, 2018 (JCR Q1, Scopus)

61. Lim, C.L., Adam, N.M., **Ahmad, K.A**., "Cryogenic pipe flow simulation for liquid nitrogen with vacuum insulated pipe (VIP) and Polyurethane (PU) foam insulation under steady-state conditions", Thermal Science and Engineering Progress, pp 302-310, Vol. 7, 2018 (JCR Q4, Scopus)

62. Zakaria, M.S, Ismail, F., Tamagawa, M., Aziz, A.F.A., Wiriadidjaja, S., Basri, A.A., **Ahmad, K.A**., "A Cartesian non-boundary fitted grid method on complex geometries and its application to the blood flow in the aorta using OpenFOAM", Mathematics and Computers in Simulation, 2018 **In Press** (JCR Q1, Scopus)

63. Aaroh, Zuber, M., Khader, S.M.A., (...), Basri, E.I., **Ahmad, K.A**., "Performance of a monarch butterfly for various flapping angle", International Journal of Engineering and Technology(UAE), pp 126-130, Vol. 7 Issue 4, 2018 (Scopus)

64. Mgaidi, A.M., Mohd. Rafie, A.S., **Ahmad, K.A.**, (...), Abdul Hamid, M.F., Marzuki, O.F., "Numerical and experimental analyses of the flow around a rotating circular cylinder at subcritical regime of Reynolds number using K-E and K-Ω-SST turbulent models ",ARPN Journal of Engineering and Applied Sciences, pp. 954-960, Vol. 13, Issue 3, 2018 (Scopus)

65. Zakaria, M.S., Ismail, F., Tamagawa, M., (...), Basri, A.A., **Ahmad, K.A**., "Computational fluid dynamics study of blood flow in aorta using OpenFOAM ",Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, pp. 81-89, Vol. 43, Issue 1, 2018 (Scopus)

66. Hamad, A., Aftab, S.M.A., **Ahmad, K.A**., "Reducing flow separation in T-junction

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36. M.K. Abdullah, M.B. Hashim, M.Z. Abdullah,M.A. Mujeebu, F.Hussin, H.Yusoff, N.C. Ismail, **K.A. Ahmad**, "Experimental and Numerical Investigation on Effect of Piezoelectric Fan Locations/Arrangement with Simple Heat Sink for Microelectronics Cooling", the 11th EMAP Conference, Penang 2nd -3rd Dec 2009

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38. N. F. Zulkefli, T. E. Nar, **K. A. Ahmad**, "A Study of Novel Concept of Flow Control", 2nd Regional Conference on Vehicle Engineering and Technology Kuala Lumpur 15-17 July 2008

39. A.T. Kamaruddin, M. B. Hashim, **K. A. Ahmad**, "Fabrication and Testing a Do-It-Yourselves (DIY) Solid Propellent Rocket ", 2nd Regional Conference on Vehicle Engineering and Technology Kuala Lumpur 15-17 July 2008

40. **Ahmad K. A.** "CFD Simulations of Oscillating Sub-Boundary Layer Vortex Generator (SBVG)", Proceeding of Joint Meeting, Inauguration of Indonesia section of JSME, International Chapter & Aun/Seed-Net Regional Workshop on Mechanical and Aerospace Engineering, ITB Indonesia, 23-24 July 2008, pp 256-271

41. M.K. Abdullah, M.Z. Abdullah, C.Y. Khor, Y. Ooi, M.V. Ramana, **K.A. Ahmad**, Z. Mohd Ripin, M.A. Mujeebu , "Effect of Piezoelectric Fan on Flow and Heat Transfer for Electronics Cooling Applications", The 10th International Conference Electronics Material and Packaging, Taiwan 22-24 Oct 2008 (Scopus Indexed)

42. N.A. Saad, M. Templeton, N. Graham, H. A. Aziz, and **K.A. Ahmad**, "Optimising the Oxidation Ditch Process by Advanced Modelling Methods", International Conference on Environment 2008, Penang , Malaysia , 15-17 December 2008

2007

43. **Ahmad, K.A.**, Razali R. "Influence of Sub-boundary Layer Vortex Generators (SBVG) on Wall Shear Stress", Proceedings of AEROTECH-II 2007 conference on Aerospace Technology of XXI Century, 20-21 June 2007, Kuala Lumpur

44. **Ahmad, K.A**., Abdullah M.Z., Mustafa Z. "Use of Sub-boundary layer vortex generator for diffuser flow separation control", Proceedings of AEROTECH-II 2007 conference on Aerospace Technology of XXI Century, 20-21 June 2007, Kuala Lumpur

45. **Ahmad, K.A**., Watterson J. K., "Use of vibrating sub-boundary layer vortex generator for diffuser flow separation control", International Conference on Adaptive odeling and Simulations, October 22-24 2007, Goteborg Sweden

46. **Ahmad, K. A**. "Potential of CFD usage in understanding the airflow of photovoltaics application", 9th Mechanical and Aeronautical Engineering Field-Wise Seminar on New/Renewable Energy, Sept 3-4 2007, Phnom Penh, Cambodia

47. **Ahmad, K.A.**, Razali R. "The use of moving mesh to study the effect of pitching aerofoil" Conference on Design, Simulation, Product Development and Optimization (PRODUCT & DESIGN 2007), 10-11 December 2007, Batu Feringghi, Penang

48. A. R. Serakawi, **K. A. Ahmad** "A Conceptual Design of Remote Control (RC) Wing-In-Ground-Effect (WIG) Aircraft", Conference on Design, Simulation, Product Development and Optimization (PRODUCT & DESIGN 2007), 10-11 December 2007, Batu Feringghi, Penang

49. CFD Aerodynamic Investigation of Air-Water Trajectories on Rotor-Stator Blade of an Axial Compressor for Online Washing, Z. Mustafa, P. Pilidis, J. A. Amaral Teixeira and **K. A. Ahmad**, IntEC2007, 2nd International Engineering Convention 2007 - Globalisation in Growing Economies - Building Capacity, Jeddah, Saudi Arabia, 10th-14th March 2007

2006

50. Mustafa,Z., Pilidis,P., Teixira, J.A., **Ahmad, K.A**,"CFD Aerodynamics investigation of air-water trajectories on rotor-stator blade of an axial compressor", ASME Turbo Expo 2006: Power for Land, Sea and Air , May 8-11, 2006, Barcelona Spain (Scopus Indexed)

2005

51. **Ahmad,K.A**., McEwan,W., Watterson,J.K., Cole,J.S.,"Numerical Study of a Vibrating sub-boundary layer vortex generator", AIAA 2005-4648

52. **Ahmad,K.A**., Watterson,J.K., Cole,J.S., Briggs,I.,"Sub-boundary Layer Vortex Generator Control of a Separated Diffuser Flow", AIAA 2005-4650

53. **Ahmad,K.A**., McEwan,W., Watterson,J.K., Cole,J.S.,"RANS turbulence models for pitching airfoil", Moving Boundaries 2005, 21-23 Sept 05, La Coruna, Spain

Books

1. Tabrej Khan, Mohammad Jawaid, **Kamarul Arifin Ahmad**, Balbir Singh, "Nanomaterials: The Building Blocks of Modern Technology, Synthesis, Properties and Applications", https://doi.org/10.1007/978-981-99-4149-0, ISBN 978-981-99-4148-3, Springer Singapore, 2023
2. Balbir Singh, **Kamarul Arifin Ahmad**, M. Manikandan, Raghuvir Pai, Eddie Yin Kwee Ng and Noorfaizal Yidris "Natural Fiber Reinforced Composites and Their Role in Aerospace Engineering", Chapter 5, Green Hybrid Composite in Engineering and Non-Engineering Applications, https://doi.org/10.1007/978-981-99-1583-5, Springer Singapore, 2023

3. Balbir Singh, **Kamarul Arifin Ahmad**, M. Manikandan, Raghuvir Pai, Eddie Yin Kwee Ng and Noorfaizal Yidris "Advanced Natural/Synthetic Polymer Hybrid Composites of the Future for the Aerospace Industry", Chapter , Green Hybrid Composite in Engineering and Non-Engineering 6Applications, https://doi.org/10.1007/978-981-99-1583-5, Springer Singapore, 2023
4.
5. M. Zuber and **K.A. Ahmad,** Airflow Inside the Nasal Cavity-Treatment planning and diagnosis using CFD, LAP Publishers, ISBN 978-3-659-11558-5., 2014
6. A. R. A. Talib, A. A. M .Bakri., A. S. Mokhtar, B. Yatim. **K. A. Ahmad**,…Z.M. Ripin, "Laporan Kajian HalaTuju Program Aeroangkasa, Institusi Pengajian Tinggi Awam, 2010-2020", Penerbit UPM ISBN 978-983-3663-43-9
7. F. Hussin, **K. A. Ahmad**, Proceding of Aerotech III, 2009, Advances in Aerospace Engineering "Oscillating sub-boundary layer based on scotch yoke concept", ISBN 978-983-42130-2-2
8. **K. A. Ahmad**, M. McEwan, J. K. Watterson, J. Cole, "RANS turbulence models for pitching airfoil", Fluid Structure Interaction and Moving Boundary Problems, WITPress, ISSN 1746-4498 (print)
9. R. Varatharajoo, E. J. Abdullah, D. L. Majid, F. I. Romli, A. S. M. Rafie, and **K. A. Ahmad**, "Aerotech IV: Recent Advances in Aerospace Technologies", Trans Tech Publication, ISBN 13-978-3-03785-506-5
10. R. Varatharajoo, F. I. Romli, **K. A. Ahmad**, D. L. Majid, F. Mustapha, "Aerotech V:Progressive Aerospace Research", Trans Tech Publication, ISBN-13: 978-3-03835-232-7

Keynotes/Invited Presentation

International

1. **Invited Speaker**, 6th Selangor International Bussiness Summit, KLCC 2022
2. **Keynote Speaker**, Universiti Sains Malaysia, RAISER 2021
3. **Keynote Speaker**, St Joseph Engineering College – Mangaluru, 9th August 2019
4. **Distinguished Lecture Series**, St Joseph Engineering College – Mangaluru, 10th August 2019
5. **Invited Speaker,** Kyushu Institute of Technology, Japan 15th-16th Jan 2016
6. **Keynote Speaker**, Airflow In the Nasal Cavity, International Conference on Environment and Sustainable Technologies, Manipal India, 3-5th January 2014
7. **Keynote Speaker**, Progress in the CFD usage in the Nasal Cavity Investigation, International Conference on Computational Methods in Engineering and Health Sciences, Manipal India, 17-19th December 2014
8. **Guest Lecture,** Progress in Heart Valve Research: Transcatheter Aortic Valve Implantation (TAVI), Manipal India 16th December 2014
9. **Keynote Speaker,** Computational Methods for Interdisciplinary Research, Manipal India 15-16th December 2014
10. **Invited Speaker,** Kyushu Institute of Technology, Japan 24th-20th Jan 2014
11. **Outstation Guest Faculty**, Manipal Institute of Technology, Manipal India 26th Oct – 29th Oct 2013
12. **Invited Speaker,** Manipal Institute of Technology, Manipal India, 24th Oct – 28th

Oct 2010

National

1. **Invited Speaker**, Science and Technology Research Institute of Defence (STRIDE) Minsitry of Defense Malaysia, 9-10 March 2022
2. **Invited Speaker**, Technical Talk On “Route To Become Professional Engineers”, Organised by Malaysia-Japan International Institute of Technology (MJIIT) Universiti Teknologi Malaysia, Kuala Lumpur, 17 April 2019
3. **Invited Speaker**, Technical Talk On “Fluid Dynamics In The Bio-Medical Engineering Application”, Organised by Engineering Education Technical Division, IEM, Wisma IEM, Petaling Jaya, Selangor, 27 February 2019
4. **Invited Speaker**, Membangun Bangsa Angkasa - Suatu Perspektif Kejuruteraan Masa Hadapan, Organised by INTERNATIONAL YOUTH CENTRE (IYC), Kuala Lumpur 2017
5. **Invited Speaker**, Seminar on Rocket Propulsion Technology:PICC Putrajaya. Organised by ANGKASA MOSTI, 2009
6. **Invited Speaker**, Seminar on Fluid Dynamcis in Bio-Medical Enginering Application: IEM HQ PJ. Organised by IEM, 2019
7. **Invited Speaker**, Introduction to CFD, Universiti Sains Malaysia 2007, 2008, 2009, 2010
8. **Invited Author,** Dewan Kosmik, Dewan Bahasa dan Pustaka Malaysia, Mei 2014, Ogos 2014, Sept 2014, Nov 2014, Disember 2014, dan Mei 2015

News/Magazine

Newspaper

1. **Panel Pakar**, Kotak Hitam boleh keluarkan isyarat selama sebulan, Utusan Malaysia, 21 March 2014
2. **Panel Pakar**, Objek Terapung mungkin serpihan MH370, Utusan Malaysia, 24 March 2014
3. **Panel Pakar**, Terhempas selepas kehabisan minyak, KOSMO, 26 March 2014
4. **Panel Pakar,** Saksi terakhir nahas pesawat, KOSMO, 2 April 2014
5. **Panel Pakar,** Semua Pihak Diminta Teruskan Doa Pencarian, Utusan Online, 7 April 2014
6. **Panel Pakar,** Pesawat MH192 mendarat cemas, Utusan Online, 2014
7. **Panel Pakar,** Perlu pakar, pengalaman siasat kotak hitam, Utusan Online, 7 April 2014
8. **Panel Pakar,** Not impossible for aircraft tyre to burst, says expert, 22 April, 2014, Daily Express
9. **Panel Pakar,** Bukan ganjil tayar pesawat pecah: Pakar, 22 April, 2014, Utusan Borneo Online
10. **Panel Pakar,** Terlalu awal untuk nilai operasi MH370, Utusan Online, 26 Jun 2014
11. **Panel Pakar,** Kotak hitam bahan bukti penting, Kosmo, 21 Julai 2014
12. **Panel Pakar,** Experts say data from black box memory card cannot be modified, MalayMail, 22 Julai 2014

13. **Panel Pakar,** Data memori kad kotak hitam tidak boleh diubah, Sinar Harian, 23 Julai 2014
14. **Panel Pakar,** Guna teori drift untuk kesan serpihan, Utusan Online, 16 Sept 2014
15. **Panel Pakar,** Perubahan laluan ikut protokol – Pakar, Utusan 30 Dis 2014
16. **Panel Pakar,** Gelombang angin, ketinggian terbang boleh rungkai tragedi N2 Dauphin, , Utusan Online , 6 April 2015
17. **Panel Pakar,** Laporan ICAO: Siasatan mencakupi segenap aspek, 8 March 2015 Utusan Online
18. **Panel Pakar,** MH370: Jika menjunam 20,000 kaki seminit, tentu ada serpihan-pakar, 10 August 2016 Mstar
19. **Panel Pakar,** MH370: Experts dispute dive theory, 11 AUG 2016, The Sun Daily
20. **Panel Pakar,** MH370, Benarkan pihak lain ketuai misi pencarian, 1 august 2018 Astro awani

LIVE TV Interview

1. **Panel Pakar**, 26 MAC (MALAM) GRANDSTAND TRAGEDI MH370, RTM TV1, March 2014, https://www.youtube.com/watch?v=_SR9jJmfzQw
2. **Panel Pakar**, "SIASATAN NAHAS MH17 & KOTAK HITAM " : PROF MADYA DR KAMARUL ARIFIN -[Platform 1 Ogos], August 2018, https://www.youtube.com/watch?v=ukWMDLFxaRM
3. **Panel Pakar,** TRAGEDI MH370, Astro Awani March 2014

Student Supervision

PhD	
1. Muhammed Zubair: An investigation of the Nasal Cavity Airflow (**Main Supervisor**) –**USM**	2009-2012 (**Graduated**)
2. Lee Chih Fang: The Mucous effects on the Nasal Cavity Airflow (**Main-Supervisor**) – **USM**	2010-2013 (**Graduated**)
3. Muhammad Khalil Abdullah: An investigation on the piezo-eletric cooling performance (**Co-supervisor**) –**USM**	2008-2012 (**Graduated**)
4. Hamid Yusoff: An investigation on the aerodynamics performance of the flapping wings (**Co-supervisor**)-**USM**	2009-2012 (**Graduated**)
5. Mohammed W. Muhieldeen Al-Gailani: Make Comfortable Environment of the Lecture Hall in Tropic Climate by Using Polyethylene single bubble (**Co-supervisor**)-**UPM GS33402**	2012-2017 (**Graduated**)
6. Syed Mohammed Aminuddin Aftab: Flow control aerodynamics (**Main-supervisor**)-**UPM GS37733**	2013-2016 (**Graduated**)
7. Hamdan Ahmad: Vertical Axis Wind Turbine (VAWT) (**Co-supervisor**)-**UPM GS 33793**	2013-2016 (**Graduated**)

8. Vizy Nazira Riazuddin: Nanoparticle in Nasal Airflow (**Main-supervisor**)-**UPM GS37711**	2013-2017 (**Graduated**)
9. Adi Azriff Basri: Experimental and Numerical Investigations of the heart valve (**Main-supervisor**)-**UPM GS37070**	2013-2017 (**Graduated**)
10. Mohamad Shukri Bin Zakaria – Cartesian Mesh Approach for FSI in Heart Valve problem (**Main-supervisor**)-**UPM GS41335**	2014-2017 (**Graduated**)
11. Omar Faruqi Marzuki – Effect of roughness on rotating cylinder and magnus turbine - (**Co Supervisor**) – **UPM GS 36854**	2014-2018 (**Graduated**)
12. Kafel Abdulazeez Mohammed: The effect of nanofluid on the heat exchanger- (**Co Supervisor**) – **UPM GS403375**	2014-2018 (**Graduated**)
13. Munerah Faraj – Study on Air Ventilation System Based on CFD Simulation for The Hospital Operation in Kuwait – (**Main-supervisor**)-**UPM GS45086**	2014-2018 (**Graduated**)
14. Amer Mgaidi – Design of Self Spinning Cylinder in Effect of Minimum Speed of the Surrounding Airflow – (**Co Supervisor**) – **UPM GS37821**	2015-2018 (**Graduated**)
15. Abdullah Aladwani – Integrated Maintenance Management of Stadium Facility – (**Co Supervisor**) – **UPM GS43398**	2015-2018 (**Graduated**)
16. Khaled AlKandari- Design a Comprehensive Making Method for Scheduling and Line balance Monitoring of Manufacturing Systems- (**Co Supervisor**) – **UPM GS 43395**	2015-2018 (**Graduated**)
17. Eisa Alostad- Augmented Reality for Automotive Inspection- (**Co Supervisor**) – **UPM GS 43394**	2015-2018 (**Graduated**)
18. Ahmad Shirazi – Wireless Structural Health Monitoring System for Pipe Line - (**Co Supervisor**) – **UPM GS43391**	2015-2018 (**Graduated**)
19. Hamad R Dh A S Alazemi – Numerical Investigation on The Kuwait's Water system piping - (**Main-supervisor**)-**UPM**	2014-2018 (**Graduated**)
20. Mohd Firdaus Abas: Investigation on the aerodynamics of flapping MAV (**Main-supervisor**)-**UPM GS36993**	2013-2017 (**Graduated**)
21. Lim Chong Lye: CFD simulation and experiments studies fordesign and develop a pilot manufacturingplant for vacuum insulated pipe for liquid nitrogen (**Co-supervisor**)-**UPM GS32454**	2012-2018 (**Graduated**)
22. Moey Lip Kean : A study on cryogenic media in pipe line- (**Co-supervisor**)-**UPM GS 34093**	2012-2018 (**Graduated**)
23. Ahmad Faiz Bin Tharima@Zainuddin: A computational and simulation investigation into improving air flow in jet fans via guide vane (**co-Supervisor**) – **Uniten PE20594**	2015-2018 (**Graduated**)

24. Ernnie Illyani Basri- Manufacturing and structural testing of Humpback whale leading edge tubercles - (**Main-supervisor**)-**UPM GS44875**	2016-2018 (**Graduated)**
25. Turki Al-Qahtani – CFD simulation of water pipe sensor - (**Main-supervisor**)-**UPM GS49057**	2016-2022 (**Graduated)**
26. Ali Almayas – Numerical simulation of steam based turbine for power plant- (**Main-supervisor**)-**UPM GS49061**	2016-2022 (**Graduated)**
27. Fahad Alazemi- Optimization of cutting tool for milling operation- (**Co Supervisor**) – **UPM GS49060**	2016-2022 (**Graduated)**
28. Chen Aolin– Numerical simulation of Heart Valve- (**Main-supervisor**)-**UPM**	2019-present (**Graduated)**
29. Dong Huizen Numerical simulation of sand trap mechanism- (**Main-supervisor**)-**UPM**	2020-present
30. Balbir Singh- Numerical simulation of Nano UAV- (**Main-supervisor**)-**UPM**	2020-present
31. Singh Spoorthi- Design of flapping mechanism of Nano UAV- (**Main-supervisor**)-**UPM**	2020-present
32. Zhu Di – Aerodynamics of Flapping Wing-(**Main-supervisor**)-**UPM**	2021-present

Master with Thesis	
1. Abdul Rashid Bin Haji Serakawi: Experimental Investigation on the oscillating SBVG effects on separated diffuser flow (Main Supervisor) –**USM**	2008-2011 (**Graduated**)
2. Ang Kiang Long: Designing, fabricating, and testing of solid propellant rocket motor (Main Supervisor) -**USM**	2008-2011 (**Graduated**)
3. Vizy Nazira Bt Riazuddin: A Numerical Investigation on the Nasal Airflow(Main Supervisor) -**USM**	2009-2011 (**Graduated**)
4. Nur Faraihan Bt Zulkefli: Numerical Investigation on the oscillating SBVG on wing's flap(Main Supervisor) -**USM**	2009-2011 (**Graduated**)
5. Khairul Ikhsan Bin Yahaya: Conceptual Design of UAV (Main Supervisor) -**USM**	2009-2011 (**Graduated**)

6. Mohd Sharizal Bin Abdul Aziz: Investigation on the effects of membrane on the aerodynamics performance of wings (Co-Supervisor) -**USM**	2009-2011 (**Graduated**)
7. Fauzi B Husin: Experimental Investigation on the oscillating SBVG on wing's flap(Co-Supervisor) -**USM**	2009-2014 (**Graduated**)
8. Afilda Bt Hashim: Tailes UAV (Co-Supervisor) -**USM**	2010-2013 (**Graduated**)
9. Babak Mahjoub: Control of Laminar Separation Bubble, and Its Effect on Aerodynamic Coefficients (Main Supervisor)- **UPM GS34967**	2012- 2014 (**Graduated**)
10. Pauline Epsiha: Investigations on the turbine blades, (**Main Supervisor**)-**UPM GS38494**	2013-2016 (**Graduated**)
11. Hayder Abdullah Luaibi Alrazeb- CFD Simulation of Piston Engine, (Main Supervisor)-**UPM GS38374**	2014-2016 (**Graduated**)
12. Mahdi Torabi Asr: vertical Axis Wind Turbine Design- (**Co Supervisor**) – **UPM GS36603**	2014-2016 (**Graduated**)
13. Omid Rowshanaie : Generating Electricity from Fluegas Produced by Boilers through thermodynamics Orc- (**Co Supervisor**) – **UPM GS35403**	2014-2016 (**Graduated**)
14. Shakirin : CFD simulation of flapping wing (Co Supervisor)- **UPM GS**	2020-current
15. Madiha – CFD Simulation of Covid 19 Particles inside the Lung	2022-present

Msc. Without Thesis	
1. Mohd Faizal Bin Halim: CFD simulation of Passive VG on separated flow diffuser (Main Supervisor) –**UPM**	2012-2013 (**Graduated**)
2. Nur Marini Zainal Abidin: Design of safety mechanism for metal cutting machine (Main Supervisor) – **UPM**	2012-2013 (**Graduated**)
3. Mohd Salahuddin Mohd Basri: An Aerodynamics Study of Bycicle Helmet (Main Supervisor) – **UPM**	2012-2013 (**Graduated**)
4. Farah Diana Ishak-Cooling system for car, (Main Supervisor) – **UPM**	2013-2014 (**Graduated**)
5. Rosree Kamarudin – CFD simulation of water nozzle - **UPM**	2013-2014 (**Graduated**)
6. Nurain Hashim – Piezo-electric based for enery harvesting system – **UPM**	2013-2014 (**Graduated**)

PostDoc Supervision	
1. Ernnie Illyani Basri	2022-present

Research Funding

No.	Project Titles	Amount	Year	Source of Grant
1.	Modelling of Bubble Rising In a Vertical Column With Different Liquid Viscosity **(Member)**	RM99,999	2008-2011	RU USM **(Completed)**
2.	Hand Pack Unmanned Aerial Vehicle (UAV) "Agrotech 2020" for agriculture application **(Member)**	RM 485,000	2007-2011	RU USM **(Completed)**
3.	Development of CFD method to study the effect of an oscillating sub-boundary layer vortex generator (SBVG) on the turbulent boundary layer **(Project Leader)**	RM19,890	2007-2010	RU USM **(Completed)**
4.	An experimental study of unsteady vortex/turbulent boundary layer interactions **(Project Leader)**	RM 60,000	2007-2010	FRGS **(Completed)**
5.	Design, Fabricate, and Test a Solid Propellant Rocket Motor **(Project Leader)**	RM33,054	2008-2011	RU USM **(Completed)**
6.	A study of the application of oscillating sub-boundary layer vortex generators **(Project Leader)**	RM240,000	2008-2011	ScienceFund **(Completed)**
7.	Construction, Analyze & Flight Test the Experimental Kit Aircraft **(Project Leader)**	RM474,756	2008-2012	RU USM **(Completed)**
8.	Computational Fluid Dynamics And particle Image Velocimetry Studies On Nasal Airflow At Pre-Operative Nasal Surgery 3-D Models **(Project Leader)**	*RM 170,000*	*2010-2013*	RU USM **(Completed)**
9.	Numerical Investigation of the Airflow on the Pre- and Post-Operatives Diseased Nasal	*RM 93,400*	*2013-2015*	RMC UPM **(Completed)**

	Cavity **(Project Leader)**			
10.	Fundamental Numerical and Experimental Investigations on the Impact of Vortex Shedding to Aerodynamics Objects **(Project Leader)**	RM 105,000	2014-2015	FRGS **(Completed)**
11.	Experimental and Numerical Study for Implementing Humback Whale Leading Edge Tubercles on Wing of ALUDRA MK-1 Unmanned Aerial Vehicle **(Project Leader)**	RM 394,500	2015-2016	ScienceFund **(Completed)**
12.	Quick Release Disposable Safety Syringe **(Member)**	RM230,000	2014-2016	PRGS **(Completed)**
13.	Aerodynamic Characteristics Of The Nasal Cavity In Obstructive Sleep Apnea Cases **(Member)**	RM15,000	2015-2017	IPM UPM **(Completed)**
14.	Micro-Vortex Generator For Flow Separation Control In Hypersonic Flow **(Mentor)**	RM20,000	2015-2017	RACE Grant **(Completed)**
15.	CFD Simulation of Passive Flow Control Device on the Aircrafts Wings **(Project Leader)**	SR 26,000 (RM 27,000)	2017-2018	King Saud University (KSU) Short Term Grant **(Completed)**
16.	Testing And Characterization Of Crash Box And Food Tray Tables Fabricated With Bamboo/Roselle-Based Hybrid Composite Materials **(Project Leader)**	RM 384,000	2016-2018	RMC UPM **(Completed)**
17.	Investigation on the novel flow control device on the diffuser flow **(Project Leader)**	RM60,000	2016-2019	IPPT Kuwait (**Completed**)
18.	Aerodynamics Investigation of Solid Propellant Rocket Motor **(Project Leader)**	RM6,000	2020-2021	FAAS Engineering and Consultancy (M) **On-going**
19.	Lantakas Rocket Project (**Project Leader**)	RM50,000	2020-2022	Lestari Aero Industries Sdn Bhd **On-going**
20.	Numerical Investigation of Kingfisher's Wing under Multiphase Flight through Rain (**Project Leader**)	RM100,000	2019-2021	UPM Putra Grant Berimpak **On-going**
21.	JASSO **(Member)**	JPY 2.43	2016-2020	Japanese Ministry of Science **(Completed)**

		Millions		

TOTAL amount of research grant obtained as Project Leader = RM 2,235,600

International Consultation/Projects

No.	Project Title	Amount	Year	Source
1.	SAFAT 03 2-Seater Light Aircraft Design Review – Completion of Technical Report and Review Meeting **(Project Leader-Aircraft Aerodynamics)**	RM 100,000	2012-2013	SAFAT Aviation Group, Sudan
2.	**ICCMEH** This is a Joint Conference between UPM, Manipal University and Kyutech Institute of Technology (KIT) held every year since 2014. 2nd ICCMEH 2015 was held in UPM with budget from participants and the industries. More than half of the participants were from overseas. 5th ICCMEH 2019 will be held again in UPM.	2015: RM 55, 000	2014-2019	Participants, Manipal University and KIT Japan

Awards

No.	Name of Award	Title	Award Authority	Award Type	Year
1.	**Silver Medal**	**Solid Propellant Rocket Motor**	20th International Invention, Innovation & Technology Exhibition (ITEX), K.L Malaysia.	International	2009
2.	**Silver Medal**	**Solid**	21th International	International	2010

		Propellant Rocket Motor for Civilian Usage	Invention, Innovation & Technology Exhibition (ITEX), K.L Malaysia.		
3.	**Bronze Medal**	**Tubercle leading Edge Airfoil**	Pameran rekacipta, Penyelidikan dan Inovasi ke 16	UPM	2016
4.	**Gold Medal**	**Ultra low speed wind turbine**	MTE SDG 2023	International	2023

Products

No.	Name of IP	Title	Country of filing	Year
1.	**Industrial Design**	**A camera rotating platform for Unmanned Aerial Vehicle (19-01353-0101)**	Malaysia Berne Convention	2018
2.	**Patent**	**New Airfoil Shape (PI 2019004596)**	Malaysia	2019
3.	**Copyright**	**MATLAB code to obtain system matrices and dynamic stability modes for the flapping wing small aerial vehicle (Source Code)(LY2022W05516)**	Malaysia	2022
4.	**Copyright**	**Mobile leakage detection system for a water pipeline (Drawing) (AR2022W05521)**	Malaysia	2022
5.	**Trade Secret**	**Lantakas Rocket Guidance**	Malaysia	2023

6.	**Copyright**	**Source code for Flapping Wing Insect/Robot Kinematics Calculator App**	Malaysia	2023
7.	**Copyright**	**Source code for latex version of UPM Thesis B5 Template**	Malaysia	2023

PRODUCT DEVELOPMENT

1. Solid Propellant Rocket

Leading a project to develop solid propellant rocket. A team of lecturers in the Department of Aerospace Engineering UPM involved in the project with the collaboration of STRIDE Mindef and several private companies. Many publication and IPs are produced during the project duration. The project is still ongoing.

2. Wind Turbine

Leading a project to develop a workable wind turbine system for Msian and regional areas. Collaboration with the UPM start-up company and the product is based on the UPM IP. Founder and Director of Focus Advanced Technologies Sdn Bhd.

Professional Services/Membership

Professional Services

International

1. **Chairman, 7**th International Conference on Computational Methods in Engineering and Health Sciences, **Malaysia** (Oct 2023) – Joint organized by Manipal University India and KIT Japan
2. **Chairman, 6**th International Conference on Computational Methods in Engineering and Health Sciences, **Malaysia** (Dec 2022) – Joint organized by Manipal University India and KIT Japan
3. **Chairman,** 5th International Conference on Computational Methods in Engineering and Health Sciences, **Malaysia** (2019) – Joint organized by Manipal University India and KIT Japan
4. **Member,** American Institute of Aeronautics and Astronautics (AIAA) (2015-2018)
5. **Editorial Board Member,** ASEAN Engineering Journal, AUN-SEED-Net, Jica, Renewed Term (2018-2020)
6. **Leader,** Research Student Exchange Programme**,** Kyushu Institute of Technology, Japan (2014-2019)
7. **Co-Chairman,** 4th International Conference on Computational Methods in Engineering and Health Sciences, **India** (2017) – Joint organized by Manipal

University India and KIT Japan

8. **Co-Chairman,** 3rd International Conference on Computational Methods in Engineering and Health Sciences, **Japan** (2016) – Joint organized by Manipal University India and KIT Japan
9. **Editorial Board Member,** ASEAN Engineering Journal, AUN-SEED-Net, Jica, Renewed Term (2016-2018)
10. **Chairman,** 2nd International Conference on Computational Methods in Engineering and Health Sciences, **Malaysia** (2015) – Joint organized by Manipal University India and KIT Japan
11. **Committee,** Asian Conference on Fluid Mechanics (ACFM) 2016
12. **Editorial Board Member,** ASEAN Engineering Journal, AUN-SEED-Net, Jica (2014-2016)
13. **Tresurer,** International AEROTECH V Conference, Kuala Lumpur 2014
14. **Member,** Editorial Board, Asian Pacific Journal of Tropical Biomedicine (2011-2013)
15. **Committee,** International AEROTECH IV Conference, Kuala Lumpur 2012
16. **Committee and Session Chair,** Conference on Aerospace and Mechanical Engineering, World Engineering Congress 2010, Kuching Sarawak
17. **Secretariat,** 11th International Conference on Electronic Material and Packaging, 1-3 December 2009, Penang

National

1. **Professional Engineer**, Board of Engineer Malaysia (BEM) (16767) (Since 2015)
2. **Professional Engineer with Practising Certificate**, PEPC (C116767) (Since 2016)
3. **Corporate Member,** Institute of Engineer Malaysia (IEM)(33902) (Since 2015)
4. **Member,** Malaysian Aerospace Dean Council, Malaysian Ministry of Higher Education (2009-2011)
5. **Member,** AKEPT Young Entrepreneur Network, Malaysian Ministry of Higher Education (2012)
6. **Leader**, Experimental Aircraft Builder Approval (Zenith CH750 Serial No 75-8027), Department of Civil Aviation (DCA), 2011
7. **Committee**, Development of National Launcher Technology, ANGKASA MOSTI, 2011

8. **Committee**, Evaluation Panel, E-Sciencefund Grant for UTM, 2008
9. **Panel Penilai Pakar,** Pembiayaan Dana R, D & C Kementerian Sains, Teknologi dan Inovasi (MOSTI), 2014-2018
10. **Mentor,** Research Acculturation Collaborative Effort (RACE) FASA 4, 2016/2018, "Micro-Vortex Generator for Flow Separation Control in Hypersonic Flow", Kementerian Pendidikan Malasyai 2016-2018
11. **Pemeriksa Luar,** Universiti Tun Hussien Onn Malaysia (UTHM), 2014-2015
12. **Pemeriksa Luar, Lantikan lanjutan,** Universiti Tun Hussien Onn Malaysia (UTHM), 2014-2015
13. **Member,** Langkawi International Maritime and Aerospace 2015 (LIMA 2015), Langkawi, Kementerian Pendidikan Malaysia, 2015
14. **Member,** Kajian penggunaan "Engine ground Run (EGR) Bay No 14", Pangkalan Udara Labuan, Labuan 2008
15. **Panel Penilai,** Agensi Kelayakan Malaysia (MQA), 2017-2020

<u>University</u>

1. **Panel Penila**i, "Permohonan skim geran penyelidikan peringkat university UPM 2016-2017", 2016-2017
2. **Panel Penila**i, "Permohonan skim geran penyelidikan peringkat university UPM 2018-2019", 2018-2019
3. **Panel Penila**i, "Permohonan skim geran penyelidikan peringkat university UPM 2015", 2015
4. **Panel Penila**i, "Permohonan skim geran penyelidikan peringkat university UPM 2014", 2014
5. **Panel Penila**i, Fakulti Kejuruteraan "Permohonan skim geran penyelidikan peringkat Fakulti", 2012
6. **Panel Penila**i, Fakulti Kejuruteraan "Permohonan skim geran penyelidikan ERGS peringkat Fakulti", 2013
7. **Penyelia/pemeriksa,** projek master tanpa thesis, Fakulti Kejuruteraan
8. **AJK,** Jawatankuasa kecil semakan semula program MIED, Fakulti Kejuruteraan
9. **AJK,** Jawatankuasa persidangan AEROTECH VI
10. **AJK,** Jawatankuasa penyeliaan
11. **AJK,** Karnival Fakulti & Hari Terbuka Projek Tahun Akhir, 2014
12. **AJK,** Karnival Fakulti & Hari Terbuka Projek Tahun Akhir, 2013
13. **Pensyarah Pelawat**, Latihan Industri, Fakulti Kejuruteraan 2014

14. **Ketua**, Kumpulan semakan kurikulum, Jabatan Kejuruteraan Aeroangkasa, UPM
15. **Penyelidik Bersekutu**, Aerospace Manufacturing Research Centre (ARMC), Fakulti Kejuruteraan UPM 2014
16. **Penyelidik Bersekutu**, Aerospace Manufacturing Research Centre (ARMC), Fakulti Kejuruteraan UPM 2012
17. **Pegawai Khidmat Nasihat**, Pameran Pengajian Siswazah UPM 2012
18. **Perunding**, UPMHoldings
19. **Ketua Pengawas**, Peperiksaan akhir UPM
20. **Panel Penilai**, Seminar Siswazah Jabatan Kejuruteraan Aeroangkasa UPM
21. **Penyelaras Penyelidikan**, Jabatan Kejuruteraan Aeroangkasa, UPM 2012-2015
22. **AJK**, Jawatankuasa Rundingan Harga Perolehan secara rundingan terus, UPM 2013
23. **AJK**, Program LIMA 2013

Community

1. **Ahli**, Program Jalinan Kasih, dengan anak-anak yatim dan fakir, daripada Baitul Barokah wal Mahabah, Sepang 20 November 2014
2. **Urusetia,** Program Penggalakan Sains dan Teknologi (PPST), Pulau Pinang 22 September 2007
3. **Juri Pertandingan,** Program Penggalakan Sains dan Teknologi (PPST), Pulau Pinang 22 September 2007
4. **Rakan Strategik dan Fasilitator, "**Projek Science, Technology, Religions, Engineering, Arts, and Mathematics (STREM)", Jabatan Kemajuan Masyarakat (KEMAS), Kementerian Pembangunan Luar Bandar, 2019

Scientific Journals and Conferences Reviewer

Journal:

1. ASEAN Engineering Journal (AEJ)
2. PLOSONE Journal
3. Journal of Aerospace Technology and Management
4. Engineering Applications of Computational Fluid Mechanics
5. Chinese Journal of Aeronautics
6. International Journal of Mechanical Engineering and Applications, SciencePG
7. Movement, Health and Exercise, MOHE
8. AIMS Energy
9. Mechatronics, Elsevier
10. Journal of Aerospace Engineering
11. Aerospace Science and Technology
12. The Open Mechanical Engineering Journal

13. Pertanika Journal
14. Journal of Vibroengineering
15. Inderscience Online
16. Heat Transfer Engineering Journal
17. Industrial Engineering and Management
18. International Journal of Engineering and Technology, FEIIC
19. Journal of Ocean Engineering, Elsevier (ISI)
20. International Journal of Mechanical and Material Engineering, Universiti Malaya (Scopus)
21. Indian Journal of Science and Technology (ISI)
22. STF Journal on Aviation Technology (JAT)
23. Journal of Medical and Biological Engineering (ISI)

Conference:

1. Conference on Aerospace and Mechanical Engineering, Kuching Sarawak 2010
2. USYS Penang 2010
3. Product & Design Conference 2008, Batu Feringghi Penang[1]
4. Aerotech 4, 2012 Furama Hotel, KL
5. Aerotech 5, 2014 Furama Hotel, KL
6. RCMME Kuala Lumpur 2013
7. RCMME Hanoi 2014
8. ICCMEH 2015, UPM Malaysia
9. ICCMEH 2016, KIT Japan
10. STACLIM 2016
11. ICCMEH 2017, MIT Manipal India

Thesis Examiners

No.	Name of Student	Examination	Appointment	Year
1.	Rahim B Muhammad	**MSc**	**Internal-USM**	**2008**
2.	Siti Nur Mariani bt Mohd Yunos	**MSc**	**External-UTHM**	**2011**
3.	Soo Poey Lam	**MSc**	**External-UTHM**	**2011**
4.	Amir Sari Navaei	**MSc**	**External-Uniten**	**2012**
5.	Ezanee Bin Gires	**MSc**	**Internal-UPM**	**2012**
6.	Mohsen Goleskardi	**MSc**	**External-Uniten**	**2012**
7.	Navin Raja A/L Kuppusamy	**MSc**	**External-Uniten**	**2013**
8.	Ahsan Nur Mubarak Zahari	**MSc**	**Internal-UPM**	**2013**
9.	Che Rafidah Mat Taib	**PhD**	**Internal-UPM**	**2013**

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10.	Ramies A/L Govindasamy	**MSc**	**External-Uniten**	**2013**
11.	Athirah Binti Abdul Aziz	**MSc**	**External-Uniten**	**2014**
12.	Mohd Amirul Abd Rahman	**MSc**	**Chairman-UPM**	**2014**
13.	Mohd yusoff Mohd Haris	**MSc**	**Chairman-UPM**	**2014**
14.	Norshazlin Sazali	**MSc**	**Viva Chairman-UPM**	**2014**
15.	Abdullah Saad	**MSc**	**Internal-UPM**	**2014**
16.	Mohd Ridwan Abu Bakar	**MSc**	**External-UTHM**	**2014**
17.	Izadi Najafabadi	**MSc**	**Internal-UPM**	**2014**
18.	Tuqa Abdul Razzaq Flayyih	**PhD**	**Internal-UPM**	**2015**
19.	Tabrej Khan	**MSc**	**Internal-UPM**	**2015**
20.	Yong Thian Haw	**MSc**	**Internal-UPM**	**2015**
21.	Athirah Bt Abdul Aziz	**MSc**	**External-Uniten**	**2015**
22.	Nor Erma Shuhadah Abdul Razak	**PhD**	**External-UTM**	**2015**
23.	Ahmed Jassim Shkarah	**PhD**	**External-UTEM**	**2015**
24.	Kueh Tze Cheng	**M.Eng.Sc.**	**External-MMU**	**2015**
25.	Chandrakant R Kini	**Msc.**	**External-Manipal University**	**2015**
26.	Muhammad Rashidi Bin Abdul Kadir	**MSc.**	**External-UTM**	**2016**
27.	Ali Mohamed Wahhad	**PhD**	**Internal-UPM**	**2016**
28.	Fatimah Binti Mohamed	**PhD**	**External-UTHM**	**2016**
29.	Parnia Zaki Khani	**PhD**	**Chairman-UPM**	**2016**
30.	Muhammad Khairil Hafizi Bin Mohd Zorkipli	**MSc**	**External-USM**	**2017**
31.	Umran Bin Abdul Rahman	**Deng**	**Internal-UPM**	**2017**
32.	Syafiqah Nur Azrie Bt Safri	**PhD**	**Internal-UPM**	**2018**
33.	Majed GH A H Alshammar	**PhD**	**Internal-UPM**	**2018**
34.	Azhar Bin Mohamed	**PhD**	**External-UTM**	**2018**

35.	Bader Al Adwani	**PhD**	**Internal-UPM**	**2018**
36.	Siti Madiha Binti Muhammad Amir	**PhD**	**Chairman-UPM**	**2019**
37.	Fynees S M D A AlAjmi	**PhD**	**Internal-UPM**	**2019**
38.	Amer E S E Th AlAjmi	**PhD**	**Internal-UPM**	**2019**
39.	Nurshafinaz Bt Mohd Maruai	**PhD**	**External-UTM**	**2019**
40.	Abdul Aziz Al Motairi	**PhD**	**Internal-UPM**	**2019**
41.	Ahmaad Kadmouse Aldeehani	**PhD**	**Internal-UPM**	**2019**
42.	Mohd Fauzi Bin Yaakub	**PhD**	**External-UTHM**	**2019**
43.	Naveen Jesu Arockiam	**PhD**	**Internal-UPM**	**2019**
44.	AMBAREEN KHAN	**MSc**	**External-USM**	**2019**
45.	SAMAR AHMED MAHROUS ABDEL HAMID FATHAL	**PhD**	**External-UTM**	**2019**
46.	AYAD ABDULLAH MOHAMMED MUTAFI	**PhD**	**Internal-UPM**	**2020**
47.	HASYUZARIZA BINTI MUHAMAD TOBIB	**PhD**	**Internal-UPM**	**2020**
48.	SHAHAN BIN MAZLAN	**PhD**	**Chairman-UPM**	**2020**
49.	AL BEHADILI ALI KAREEM HILO	**PhD**	**Internal-UPM**	**2020**
50.	ALMUKHTAR. IB. A. ALJERMI.	**PhD**	**Internal-UPM**	**2020**
51.	ALBUHAMDAN SADEQ SALMAN ABED	**PhD**	**Internal-UPM**	**2020**
52.	RAMI ABDULHAKEEM HASAN BA RAIDAH	**PhD**	**Internal-UPM**	**2020**
53.	HABEEB A H R ALADWANI	**PhD**	**Internal-UPM**	**2020**
54.	MOHAMMAD SH I A M I ALHAJJI	**PhD**	**Internal-UPM**	**2020**
55.	ADEL S M A ALSAEED	**PhD**	**Chairman-UPM**	**2020**

56.	Tan Kea Cheng	**PhD**	**External-USM**	**2020**
57.	Chin Kwang Yhee	**MSc.**	**External-UTEM**	**2020**
58.	Muhammad Hafizan bin Yosri	**PhD**	**External-UTM**	**2020**
59.	SH Mohd Firdaus SH Abdul Nasir	**PhD**	**External-USM**	**2020**
60.	WAQAS ASHRAF	**PhD**	**Chairman-UPM**	**2020**
61.	ALI AHMAD BIN MAZLAN	**MSc.**	**Chairman-UPM**	**2020**
62.	Rajesh Senthil Kumar.T.	**PhD**	**External-Amrita School of Engineering** **Amrita Vishwa Vidyapeetham**	**2020**
63.	Seri Nur Zumaimi	**MSc**	**Internal UPM**	**2021**
64.	MOHAMAD ZAHID BIN MAZLAN	**MSc.**	**External UTM**	**2021**
65.	Ramdhaney bin Mohd Saiah	**PhD**	**Chairman-UPM**	**2021**
66.	Zaliha binti Wahid	**PhD**	**Internal-UPM**	**2021**
67.	Tamil Moli a/p Loganathan	**PhD**	**Chairman-UPM**	**2021**
68.	Farah Syazwani binti Sahar.	**PhD**	**Internal-UPM**	**2021**
69.	MAHIR HASSAN MOHAMED IBRAHIM	**PhD**	**External-UTM**	**2021**
70.	H'NG YIN MUN	**PhD**	**External-UTM**	**2021**
71.	MUHAMMAD KH O KH D ALDAUSARI	**PhD**	**External-UIAM**	**2021**
72.	Izham Izzat bin Ismail	**MSc**	**External-UIAM**	**2022**
73.	NUR NABILLAH BINTI MOHD KAMAL	**MSc**	**Internal-UPM**	**2022**
74.	ALOWAID A R O ALOTAIBI	**PhD**	**Internal-UPM**	**2022**
75.	AHMED MAHJUB MOHAMMEDEIN ALHAJ	**PhD**	**External-USM**	**2022**
76.	Muhamad Khairil Hafizi Bin Mohd Zorkipli	**MSc**	**External-USM**	**2023**
77.	ALI RAQEE ABDULHADI	**PhD**	**Internal-UPM**	**2023**

78.	MURNIWATI BINTI ANWAR	**PhD**	**Internal-UPM**	**2023**
79.	Nor Izaida binti Ibrahim	**PhD**	**Internal-UPM**	**2023**
80.	MOHD FAHMI BIN MAD ALI	**PhD**	**Internal-UPM**	**2023**
81.	Zheng Guanchao	**PhD**	**Internal-UPM**	**2023**