



**PERSONAL DETAILS**

**Name** : Dr. Ir. Shabudin bin Mat, Peng, CEng & MIMechE  
**Gender** : Male  
**Date of Birth** : 6 September 1974  
**Nationality** : Malaysian  
**Marital Status** : Married  
**Permanent Address** : 25, Jalan Pulai Perdana 3/3, Taman Sri Pulai Perdana, 81110 Johor Bahru, Johor, Malaysia  
**Office Address** : Department of Aeronautics, Automotive and Marine Faculty of Mechanical Engineering, 81310 UTM JB, Johor, Malaysia  
**Tel** : (Mobile) : +6016 – 314 3674 (Office): 07 – 553 4563 (Fax): 075566159  
**E-mail** : shabudin@fkm.utm.my, shabudin@utm.my  
**Website** : www.fkm.utm.my/shabudin  
**ID Staff** : 7344  
**Expertise** : Low Speed Aerodynamics

**ACADEMIC QUALIFICATIONS**

2010 : Ph.D. in Low Speed Aerodynamics  
University of Glasgow, Scotland, United Kingdom  
1998 : M.Sc. in Aeronautical Maintenance and Production  
Ecole Nationale Superieure D'engineur De Construction Aeronautique,  
Toulouse, France  
1997 : B. Sc. in Aeronautical Engineering  
Universiti Teknologi Malaysia

**AWARD AND HONORS RECEIVED**

2015 : Penghargaan Khas NC: Penerbitan Buku Projek Pembangunan  
UTM di Bawah RMK-9  
Universiti Teknologi Malaysia

- 2015 : Grant of Financing of programs of academic of French Embassy  
Director of the Malaysia-France University Centre,  
Embassy of France, 192-196 Jalan Ampang, 50450 Kuala Lumpur,  
Malaysia
- 2012 : Grant of Financing of programs of academic of French Embassy  
Director of the Malaysia-France University Centre,  
Embassy of France, 192-196 Jalan Ampang, 50450 Kuala Lumpur,  
Malaysia
- 2006 : Anugerah Penerbitan Naib Canselor (Tempat Ketiga)  
Universiti Teknologi Malaysia
- 2005 : Islamic Development Bank (IDB) Merit Scholarship Programme  
(MSP) award for PhD study  
Islamic Development Bank,  
P.O. BOX 5925, Jeddah 21432, Kingdom of Saudi Arabia.
- 2004 : 2004 Excellence Service Award  
Universiti Teknologi Malaysia
- 1998 : French Aeronautics and Space Industry Award (FASIA AWARD)  
French Aerospace Academy (ANAE),  
The Groupment of French Aerospace Industry Association (GIFAS),  
France
- 1997 : viii) Dean List  
Universiti Teknologi Malaysia

## **PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION**

- i) UK Chartered Engineer, Ceng (UK)  
Membership No: 80174934, 12 December 2012
- ii) Membership of the UK Institute of Mechanical Engineers  
28 November 2012
- III) Registered with Board of Engineer Malaysia, 27 April 2000  
IV) Professional Engineers (2018)

## **ADMINISTRATIVE EXPERIENCE**

### **FACULTY LEVEL**

- i) Jan 2014 – Jan 2016 Faculty Technical evaluation  
Committee member exercise to Associate
- ii) 2012 – Chaiman of Faculty Staff Welfare Committee

- iii) August 2017-July 2018 – Pengerusi Jawatankuasa Latihan Iktisas dan Kelayakan Professional

## **UNIVERSITY LEVEL**

- i) 1 March 2018 – 28 February 2020 – Head of Aeronautical Laboratories  
 ii) 5 July 2015 – 4 July 2017 – Faculty Representative for UTM Alumni

## **OTHERS EXPERIENCE**

### **NATIONAL COMMITTEE**

Appointed as Assesor for Malaysia Quality Assurance (MQA) or formerly known as Lembaga Akreditasi Negara (LAN). The courses had been evaluated under MQA are:

<b>No</b>	<b>Name of College/University</b>	<b>Name of course evaluated</b>	<b>Standard</b>
1	Kolej Tefe, Seremban (1999)	Diploma Penyelenggaraan Kapal Terbang	Approval of Accreditation
2	Kolej Tefe, Seremban (2000)	Diploma Penyelenggaraan Kapal Terbang	Approval of Accreditation
3	Institut Teknologi Jaya (2001)	Diploma In Mechanical Engineering	Approval of Accreditation
4	Prime College, Subang Jaya (2002)	Diploma In Mechanical Engineering	Approval of Accreditation
5	Kolej WIT, Klang	Diploma In Automotive Engineering	Approval of Accreditation
6	Kolej WIT, Ipoh (2003)	Diploma In Automotive Engineering	Approval of Accreditation
7	Kolej Tefe, Seremban (2004)	Diploma Penyelenggara an Kapal Terbang	Minimum Standard
8	MIAT, UniKL (2004)	Diploma Aircraft Maintenance (Avionik)	Standard Mimimum
9	MIAT, UniKL (2004)	Diploma Aircraft Maintenance (Pembuatan)	Minimum Standard
10	MIAT, UniKL (2004)	Diploma Aircraft Maintenance (Komposit)	Minimum Standard
11	MFI, UniKL (2004)	Diploma in Automotive Engineering Technology	Approval of Accnitation
12	MFI, UniKL (2004)	Diploma in Automotive Technology (Automotion & Maintenance)	Approval of Accreditation
13	MFI, UniKL (2005)	Bachelor in Engineering Technologist (Industrial Automation & Robotics)	Mimum Standard
14	MIAT, UniKL (2004)	Certificate in Body & Fuselage Maintenance (Kursus dibatalkan oleh arahan MQA)	Approval of Accreditation
15	MFI, UniKL (2004)	Bachelor in Engineering Technologist (Industrial Automation & Robotics)	Approval of Accreditation
16	MSI, UniKL (2004)	Diploma in Engineering Technology (Manufacturing)	Approval of Accreditation
17	MSI, UniKL (2004)	Diploma Teknologi Kejuruteraan (Pengeluaran dan Kawalan Berautomasi)	Mimum Sytandard

18	MIAT, UniKL (2005)	Diploma Aircraft Maintenance (Avionik)	Approval of Accreditation
19	MIAT, UniKL (2005)	Diploma Aircraft Maintenance (Pembuatan)	Approval of Accreditation
20	MIAT, UniKL (2005)	Diploma Aircraft Maintenance (Komposit)	Approval of Accreditation
21	Cybernatics International College, 2015	Diploma of Aviation Management	Approval of Accreditation
22	MSU Management Science University, 2014	Bachelor of Science in Aviation Management & <i>Piloting</i>	Minimum Standard
23	Cybernatics International College(Naluri)	Certificate of Aviation Management	Minimum Standard
24	Cybernatics International College (Naluri) (2016)	Certificate of Aviation Management	Approval of Accreditation
25	Pusat Latihan Teknologi Kejuruteraan Tinggi (ADTEC)	Diploma Teknologi Kejuruteraan Automotif	Minimum Standard
26	Pusat Latihan Teknologi Kejuruteraan Tinggi (ADTEC) (2017)	Diploma Teknologi Kejuruteraan Automotif	Approval of Accreditation
27	Admal Aviation College (2014)	Diploma in Aviation Business	Minimum Standard
28	Admal Aviation College (2017)	Diploma in Aviation Business	Approval of Accreditation
29	College of business Management (2014)	Diploma in Cabin Crew and Flight Service	Minimum Standard
30	Kolej Yayasan Sabah (2015)	Advanced Diploma in Mechanical Engineering	Minimum Standard
31	International College of Automotive (2015)	Bachelor Engineering Technology Mechanical (Automotive Service)	Minimum Standard
32	Kolej Internasional Crescendo (2017)	Diploma in Hospitality Management and Airlines Services	Minimum Standard
33	Universiti Malaysia Pahang (2015)	Master in Automotive Engineering (Twin Programme with Karlsruhe University of Applied	Minimum Standard
34	Universiti Tun Hussein Onn Malaysia,2016	Sarjana Muda Teknologi Kejuruteraan Aeronautik (Penyenggaraan Pesawat Terbang dengan Kepujian)	Approval of Accreditation
35	Akademi Latihan Penerbangan Asia Pasifik, 2015	Diploma in Aviation ( <i>Air Traffic Management</i> )	Minimum Standard
36	Kolej Komuniti Bandar Darulaman (2016)	Diploma Teknologi Automotif (Kenderaan Perdagangan)	Minimum Standard
36	Kolej SEGi Subang Jaya (2017)	Bachelor of Engineering 3+0 in Collaboration with University of Sunderland	Approval of Accreditation
38	Kolej Komuniti Bagan Datoh (2017)	Sijil Penyelenggaraan Motosikal (Berkuasa Tinggi)	Approval of Accreditation

39	Kolej Komuniti Tambunan (2017)	Sijil Servis Kenderaan Ringan	Minimum Standard
40	Kolej Yayasan Melaka	Diploma in Aviation Management	Minimum Standard
41	Kolej Teknologi dan Perniagaan NAZA	Diploma in Motorcycle Technology	Standard Minimum

### **INTERNATIONAL APPOINTMENT/COMMITTEE**

- i) Editorial Board Member for Scopus Journal, Akemia Baru. December 2017
- ii) Appointment as panel of NATO working group on Vortex Flow Experiment Two (VFE – 2, AVT 113 RTO) – A working group to investigate the flow characteristics above round-edged Delta Wings. September 2005 - 2018

### **RESEARCH ACTIVITIES**

#### **RESEARCH UNIVERSITY GRANT (GUP FUND)**

- 2017 : **Project Leader**  
The Influences of Synthetic Jet Actuator (SJA) on the Aerodynamic Characteristics of SACCON Wing.  
Budget approved RM 40, 000 (Vot 18H06)
- 2016 : **Project Member**  
Unsteady Aerodynamics of Motorcycle Slat.  
Budget approved RM 20, 000 (Vot 11J92)
- 2015 : **Project Leader**  
Influencing Factors for Vortex Breakdown on Delta-Winged Unmanned Aerial Vehicle Performance.  
Budget approved RM 50, 000 (Vot 12H06)
- 2014 : **Project Leader**  
Fiber Bragg Grating (FBG) and Pressure Sensors for the Surface Pressure Measurement.  
Budget approved RM 20, 000 (Vot 08H94)
- 2012 : **Project Leader**  
Three Dimensional Aerodynamic Studies of a Delta Wing in Combined Pitch and Yaw Motion – Tier 2.  
Budget approved RM 50, 000 (Vot 05J41)
- 2011 : **Project Member**  
A Novel Approach Using Parallel Evolutionary Programming in Trajectory Optimization for A Multiplayer Combat Flight Simulator.  
Budget approved RM 40, 000 (Vot 00J47)

- 2011 : **Project Leader**  
Laminar/Turbulent Experiments on the Blended Delta-Shaped Wing Model. Budget approved RM 20, 000 (Vot 4P034)
- 2011 : **Project Member**  
Store Clearance Trajectory Prediction System for A Subsonic Fighter Aircraft Using Open Sources Cfd Codes.  
Budget approved RM 40,000 (Vot 00J70)
- 2001 – 2003 : **Project Member**  
A Study on Wing-External Store Aerodynamics Interference of a Subsonic Fighter Aircraft  
Budget approved RM 20, 000 (Vot 71605)
- 2002 : **Project Leader**  
Design, Fabricated and Test the Plane Models of Transport Aircraft.  
Budget approved RM 20, 000 (Vot 71939)
- 1999 : **Project Leader**  
Fabrication and Testing of Aircraft Wing Model Component.  
Budget approved RM 7, 000(Vot 71614)

***FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)***

- 2016 : **Project Member**  
Correlation of Induced Secondary Flow and Heat Transfer Enhancement in Tube with Spiral Corrugation.  
Budget approved RM 86, 500(Vot 4F832)
- 2015 : **Project Leader**  
Study on the Complex Interaction between the Primary and the Inner vortices of Delta-Shaped Sagitta and Saccon Wing Models.  
Budget approved RM 142, 800 (Vot 4F718)
- 2013 : **Project Leader**  
Study of Leading Edge Vortex Breakdown Mechanism and Its EffectbOn Lift Production of a Slender Delta Wing.  
Budget approved RM 150, 000 (Vot 4F172)
- 2013 : **Project Member**  
Fundamental Effect of Air Cushionon The Behavior Of Water Craft with Rigid Surface. Budget approved RM 82, 000 (Vot 4F321)

**RESEARCH PROJECT UNDER INSTITUT INOVASI STRATEGIK JOHOR -IISJ**

- 2016 : **Project Leader**  
Mersing Fly – In Air Carnival 2017  
Budget approved RM 5000 (Vot 4Y081)
- 2016 : **Project Leader**  
Kajian Feasibility Pembangunan Lapangan Terbang di Mersing sebagai  
Hub Perhubungan Pelancongan (Tourism Connectivity Hub)  
Budget approved RM 40, 000(Vot 15H15)

**RESEARCH PROJECT UNDER NATO PROJECT (RTO-AVT-11) ON THE DESIGN FOR  
EXPERIMENTAL OF ROUND-EDGED DELTA WINGS**

- 2005 - 2010 : **Project Member**  
Design for Experimental of Round-Edged Delta Wings by NATO. Budget  
approved EURO 20, 000

**RESEARCH PROJECT UNDER CONTACT RESEARCH FUND (CR)**

- 2016 : **Project Member**  
Wind resistance of mineral roof tiles of type ZEN tiles from Terreal  
Malaysia Sdn Bhd. Budget approved RM 40, 174 (Vot 4C113)
- 2015 : **Project Member**  
Wind Resistance of Concrete And Clay Roof Tiles of Type Romane Evo  
And Romane XI from Terreal Malaysia Sdn Bhd.  
Budget approved RM 63, 600 (Vot 4C111)

**RESEARCH PROJECT UNDER SCIENCE AND TECHNOLOGY FUND (ST)**

- 1998 : **Project Member**  
A Design of Experiment (DOE) Approach Determine the Optimal Process  
Parameters for Selective Laser Sentering (SLS) Rapid.  
Budget approved RM 40, 000 (Vot 71892)

**RESEARCH PROJECT UNDER FLAGSHIP FUND**

- 2013 : **Project Member**  
Development of Amphibious Boat Hull Design.  
Budget approved RM 273, 000 (Vot 01G36)

## **RESEARCH PROJECT UNDER POTENTIAL ACADEMIC STAFF FUND**

2017 : **Project Member**  
Computational work of aerodynamic forces of insect and flappingwing.  
Budget approved RM 20, 000 (Vot 03K03)

## **SPECIAL GRANT PROJECT UNDER MINISTRY OF WOMEN, FAMILY AND COMMUNITY DEVELOPMENT FUND (OTR)**

2013 : **Project Member**  
AL-QURAN BRAILLE ELEKTRONIK (Ebraille).  
Budget approved RM 2,500, 000 (Vot 4B126)

## **TEACHING ACTIVITIES**

<b>Semester</b>	<b>Sem</b>	<b>Subject Code</b>	<b>Subject</b>	<b>Credit Hour</b>
2013/2014	2	MKMF 2333	Compressible Flow	3
2013/2014	2	MKMF 2343	Aerodinamik Industri dan Kejuruteraan Angin	3
2016/2017	1	MKMF 2926	Projek Sarjana 2	6
2016/2017	1	SKMM 4924	Projek Sarjana Muda	1
2016/2017	1	SKMM 4912	Projek Sarjana Muda	3
2014/2015	1	SKMM 2921	Makmal 1	1
2014/2015	1	SKMM 3023	Kaedah Berangka Gunaan	3
2014/2015	1	SKMA 3333	Aerodinamik	3
2014/2015	1	SKMM 4912	Projek Sarjana Muda	3
2014/2015	1	SKMM 3023	Kaedah Berangka Gunaan	3
2013/2014	2	SKMM 3915	Latihan Industri	22
2013/2014	2	SMF 4523	Rekabentuk Pesawat Terbang II	3
2013/2014	1	SMF 4512	Rekabentuk Pesawat Terbang I	2
2013/2014	1	SMF 4523	Rekabentuk Pesawat Terbang II	3
2013/2014	1	SKMM 1203	Statik	3
2013/2014	1	SME 3916	Latihan Industri Pelajar dari Institute De Saint Malo	6
2013/2014	1	SKMM 4912	Projek Sarjana Muda	2
2013/2014	1	SKMM 4924	Projek Sarjana Muda	4
2012/2013	2	SKMM 3915	Latihan Industri	5
2012/2013	2	SMF 4523	Rekabentuk Pesawat Terbang II	3
2012/2013	2	SKMM 1203	Statik	3
2012/2013	2	SKM 1013	Statik	3
2012/2013	2	SME 1203	Statik	3
2012/2013	1	SKMM 1203	Statik	3
2011/2012	1	SME 1203	Statik	3
2011/2012	1	SME 1912	Makmal 1	2
2010/2011	2	SME 1313	Mekanik Bendalir 1	3



2010/2011	2	SMF 4523	Rekabentuk Pesawat Terbang II	3
2010/2011	2	SMF 3333	Aerodinamik	3
2010/2011	1	SMF 2323	Mekanik Bendalir II (Aeronautik)	3

## SUPERVISION

### PhD STUDENT

Year	No.	Name	Status	Title	Roles of Supervision
2017	1	Khushairi Amri Bin Kasim	Ongoing	A Study on the Effects of Leading Edge Vortex on Longitudinal Static Stability of Delta Shaped SACCON Wing	Main Supervisor
2016	2	Mazuriah Binti Said	Ongoing	Experimental Study on the Complex Interaction between the Primary and Inboard Structures of Delata Shaped Diamond Wing	Main Supervisor
2014	3	Mohamad Abu Ubaidah Amir Abu Zarim	Withdraw	Computational Analysis of Aerodynamic Characteristics wing in Ground Effect Craft in Lateral Stavility	Co-Supervisor

### MSc. STUDENT

Year	No.	Name	Status	Title	Type	Roles of Supervision
2018	1	Hameed Mohideen Abdulkadir Kalvathi	Ongoing	Drag Reduction Technology for A Generic Proton Model	Taught Course	Main Supervisor
2018	2	Neelam Jehan Majeed	Ongoing	Longitudinal Control Design of UTM-LST MD-3 Light Aircraft.	Taught Course	Main Supervisor
2017	3	Ibrahim Abdullah Ali Madan	Ongoing	Influences of Active Flow Control Techniques on Vortex Properties above Blunt Edged Delta Wing at High Angles of Attack	Taught Course	Main Supervisor
2017	4	Nurul Izzwa	Ongoing	Correlation of Induced	Research	Co-

		Nadila binti Mohamad Azahar		Secondary Flow and Heat Transfer Enhancement in Tube with Spiral Corrugation		Supervisor
2016	5	Fahmi Izzuddin bin Abdul Rahman	Ongoing	Active Flow Control Technique Above Sharp-Edged Delta Wing	Taught Course	Main Supervisor
2015	6	Mohd. Fahmi bin Abdullah	Submitted (waiting for Viva)	Influences of Active Flow Control Techniques on Vortex Properties above Blunt Edged Delta Wing	Research	Main Supervisor
	7	Muhammad Izuan bin Miskon	Submitted	Fiber Bragg Grating for Air Pressure Profiling on Generic UTM Half Model	Research	Co-Supervisor
2014	8	Khushairi Amri Bin Kasim	Graduated	Propeller Locations Study on Delta-Winged Unmanned Aerial Vehicle (UAV) Model	Research	Main Supervisor
2013	9	Mazuriah Binti Said	Graduated	Effects of Leading Edge Radius, Reynolds Number and Angle of Attack on the Vortex Formation Above Large-edged Delta Wing	Research	Main Supervisor
2013	10	Alimamy Isaac Bundu	Graduated	Experimental Investigation on a Generic Light Aircraft with Rotating Propeller at Low Reynolds Number	Research	Main Supervisor
2013	11	Muhammad Zal Aminullah bin Daman Huri	Graduated	Experimental Investigation on Blunt-Edged Delta Wing Model of VFE-2	Taught Course	Main Supervisor

				Configurations at Low Reynolds Number		
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## POSTGRADUATE EXAMINATION / VIVA

### UTM STUDENTS/VIVA

- 2017 : **Co-chairman of the PhD. Viva** for
- i). Chan Wei Chung for the thesis entitled "Transient Aerodynamics effect on Ground Vehicle Crosswind Sensitivity".
  - ii). Ang Kiang Long for the thesis entitled "Ballistic Properties of a Polybutadiene Propellant for Rocket Application". Year 2017.

### MSc EXTERNAL EXAMINER

- 2012 : Pan Kok Chen  
The Design and Testing of a Power Augmented Wind Turbine System for Urban High Rise Building.  
Universiti Malaya.

### MSc INTERNAL EXAMINER

- 2016 : Firdaus Mahamad  
Experimental Investigations and CFD Simulation of a Helicopter Tail Rotor Blade
- 2015 : Muhammad Iyas bin Mahzan  
Wing Flutter Characteristics Due to Control Surface Excitation at Low Wind Speed
- 2011 : Behnaz Beladi  
Computational Modeling of Wind Flow around a Four-Building Cluster

## PUBLICATIONS

### JOURNAL

#### ISI Journal:

- 1) **Mat, S.**, Green, R., Galbraith, R., and Coton, F. (2016). The effect of edge profile on delta wing flow. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*. 230 (7), 1252 – 1262. (IF: 0.809).
- 2) **Mat, S.**, Ishak, I. S., Mat Lazim, T., Mansor, S., Said, M., Abdul Rahman, A. B., Mohd Kamaluddin, A. S., and Brossay, R. (2014). Development of delta wing

aerodynamics research in Universiti Teknologi Malaysia low speed wind tunnel. *Advances in Mechanical Engineering* .6 (1), 1-9. (IF: 0.827).

- 3) Mat Lazim, T., **Mat, S.**, and Saint, H. Y. (2004). Computational Fluid Dynamic Simulation (CFD) and Experimental Study on Wing-external Store Aerodynamic Interference of a Subsonic Fighter Aircraft. *Acta Polytechnica: Journal of Advanced Engineering*. 44(2), 1 – 6.

### **SCOPUS Journal:**

- 1) Tajuddin, N., **Mat, S.**, Said, M. & Mansor, S.,(2017). Estimation of Aerodynamic Characteristics of a Light Aircraft. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. Issue 1. ISSN 2289-7879, 17-25.
- 2) Abdul Manaf, M.Z., **Mat, S.**, Said, M., Mansor, S., Nasir, M.N., Mat Lazim, T., Wan Ali, W.K., Wan Omar, W.Z., Mohd Ali, Z., Abdul-Latif, A., Abdul Wahid, M., Dahalan, M.N. & Othman, N.,(2017). Influences of External Store on Aerodynamic Performance of UTM LST Generic Light Aircraft Model. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. Issue 1. ISSN 2289-7879, 36-46
- 3) Mohd. Zain, N., **Mat, S.**, Kassim, K.A., Mansor, S. & Dahalan, M.N. (2017).Wind Tunnel Experiments on a Generic Sharp-edged Delta wing UAV model. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. Issue 1. ISSN 2289-7879, 18-28.
- 4) Mansor, S., Nogoud, Y., **Mat, S.**, Dahalan, M.N. & Abdul-Latif, A., (2017).Seperaugmented Pitching Motion of UTM CAMAR UAV Using Advanced flying Handling Qualities. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. Issue 1. ISSN 2289-7879, 27-37.
- 5) Dahalan, M.N., Suni, A.F, Ishak, I.S., & Nik Mohd, N.AR. **Mat, S.**, (2017).Aerodynamic Study of Air Flow over a Curved Fin Rocket. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. Issue 1. ISSN 2289-7879, 46-58.
- 6) Osman, N., **Mat, S.**, Abdul Wahid, M., Mansor, S., & Dahalan, M.N., (2017). Experimental Study of New UTM Sport Complex. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. Issue 1. ISSN 2289-7879, 70-78
- 7) **Mat, S.**, Abdullah, M. F., Dahalan, M. N., Said, M., Mansor, S., Abdul Latif, A., and Mat Lazim, T. (2017). Effects of Synthetic Jet Actuator (SJA) on Flow Topology of Blunt-Edged UTM VFE2 Wing Model. *55th AIAA Aerospace Sciences Meeting, AIAA SciTech Forum*. 9 – 13 January. Grapevine, Texas.
- 8) Ujang, M. I., **Mat, S.**, Perumal, K., and Mohd Nasir, M. N. (2016). Experimental study of UTM-LST generic half model transport aircraft. *AEROTECH VI - Innovation in Aerospace Engineering and Technology*. Vol 152. pp. 1-8.
- 9) Amir, M. A. U., Maimun, A., **Mat, S.**, Saad, M. R. (2016). Computational analysis of aerodynamic characteristics for wing in ground effect craft in lateral stability. *AEROTECH VI - Innovation in Aerospace Engineering and Technology*. 152(1), 1-9.
- 10) Kasim, K. A., **Mat, S.**, Ishak, I. S., and Said, M. (2016). Effects of propeller locations on the vortex system above delta-shaped UAV model. *30th Congress of the*

*International Council of the Aeronautical Sciences, ICAS 2016. 25 – 30 September. Daejeon, Korea. ISBN: 9783932182853.*

- 11) Said, M., and **Mat, S.**(2016). Effects of Reynolds Number On the Onset of Leading Edge Vortex Separation Above Blunt-Edge Delta Wing VFE-2 Configurations. *30th Congress of the International Council of the Aeronautical Sciences, ICAS 2016. 25 – 30 September. Daejeon, Korea.*
- 12) Said, M., **Mat, S.**, Mansor, S., Abdul-latif, A., and Mat Lazim, T. (2015). Reynolds Number Effects on Flow Topology Above Blunt-Edge Delta Wing VFE-2 Configurations. *53rd AIAA Aerospace Sciences Meeting. 5 – 9 January. Kissimmee, United States.*
- 13) Isaac Bundu, A., **Mat, S.**, and Ishak, I. S. (2015). Effect of Control Surface and Reynolds number on flow separation of Generic Light Aircraft. *Proceeding of Ocean, Mechanical and Aerospace - Science and Engineering. 21 October. Batam, Indonesia.*
- 14) **Mat, S.**, Ishak, I. S., Zakaria, K., and Khan, Z. A. (2014). Manufacturing Process of Blended Delta-Shaped Wing Model. *Advanced Materials Research. Vol. 845. pp. 971 – 974.*
- 15) Coton, F. N., **Mat, S.**, Galbraith, R., and Gilmour, R. (2009). The Effect of Leading Edge Radius on a 65 of Delta Wing. *47th AIAA Aerospace Sciences Meeting including The New Horizons Forum and Aerospace Exposition. 5 – 8 January. Orlando, Florida.*
- 16) Coton, F., **Mat, S.**, Galbraith, R. and Gilmour, R. (2008). Low Speed Wind Tunnel Characterization of the VFE-2 Wing. *46th AIAA Aerospace Sciences Meeting and Exhibit, Aerospace Sciences Meetings. 7 – 10 January, Reno, Nevada, pp. 1-10.*
- 17) Ishak, I. S., **Mat, S.**, Mat Lazim, T., Muhammad, M. K., Mansor, S., and Awang, M. Z. (2006). Estimation of Aerodynamic Characteristics of a Light Aircraft. *Jurnal Mekanikal. 22(1), 64 – 74.*

**NON INDEXED Journal:**

- 1) Wan Omar, W. Z., Muhammad, M. A., **Mat, S.** Abdul Rahman, A. B., Mohd Nasir, M. N., Said, M., Musa, N. A., Kasim, K. A., Mohd Zain, N., Perumal, K., Mat Lazim, T., Mansor, S., Md Reba, M. N., Nik Mohd, N. A. R. and Ismail, K. (2017). Economic Impact Due to the Development of Regional Airport a Case Study of Mersing Airport. *2nd Southeast Asia Workshop on Aerospace Engineering (SAWAE 2017). 27 – 29 October. Ho Chi Minh, Vietnam.*
- 2) Mansor, S., Nogoud, Y. A. M., **Mat, S.**, and Dahalan, M. N. (2017). Superaugmented Pitching Motion Using Advanced Flying Handling Qualities. *2nd Southeast Asia Workshop on Aerospace Engineering (SAWAE 2017). 27 – 29 October. Ho Chi Minh, Vietnam.*

- 1) **Mat, S.** Isaac Bundu, A., Zulkefli, N. I., and Ishak, I. S. (2016). *Wind Tunnel Testing for Light Aircraft Model*. In Mat, S. *Aeronautical Engineering Research at UTM* (pp. 47 - 65). UTM Johor Bahru: Penerbit UTM Press.
- 3) Mohd Zain, N., **Mat, S.**, Kasim, K. A., Perumal, K., Mansor, S., Mohd Nasir, M. N., Abdul-Latif, A. and Wan Omar, W. Z. (2017). Wind Tunnel Experiments on a Generic Sharp-Edged Delta Wing Uav Model. *2nd Southeast Asia Workshop on Aerospace Engineering (SAWAE 2017)*. 27 – 29 October. Ho Chi Minh, Vietnam.
- 4) Tajuddin, N. B.,**Mat, S.**, Said, M., Perumal, K., Mansor, S., Mohd Nasir, M. N., Abdul-Latif, A. and Wan Omar, W. Z. (2017). Wind Tunnel Test of Blunt-Edge Delta Wing VFE-2 Profiles at High Angles of Attack. 2nd Southeast Asia Workshop on Aerospace Engineering (SAWAE 2017). 27 – 29 October. Ho Chi Minh, Vietnam.
- 5) Miskon, M. I., Raja Ibrahim, R. K., **Mat, S.**,and Azmi, A. I. (2017). FBG as Air Pressure Sensors on Generic UTM-LST Half Model. *Malaysian Journal of Fundamental and Applied Sciences*.Future Issue. Pp. 644. ISSN 2289-5981
- 6) Amir, M. A. U., Maimun, A., **Mat, S.**,Saad, M. R. (2016). Wing in Ground Effect Craft: A Review of the State of Current Stability Knowledge. *International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineer (OMASE 2016)*. 7 – 8 November. Terengganu, Malaysia.
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