

ANNUAL REPORT FOR THE YEAR 2013-2014

(01.05.2016- 30.06.2017)

NAME OF THE DEPARTMENT: AEROSPACE ENGINEERING

1. Detailed list of Professors, Associate Professors and their Ph.D specialization during the period (01.05.2016to 30.06.2016)

Sl.No.	Name of Professors	Date of Superannuation	E-mail address	Field of specialization
1.	Dr.B.T.N.Sridhar	2027	sridhar@mitindia.edu	Propulsion CFD
2.	Dr.K.M.Parammasivam	2032	mparams@annauniv.edu	Aerodynamics Propulsion Wind Engineering

Sl.No.	Name of Associate Professors	Date of Superannuation	E-mail address	Field of specialization
1.	Dr.K.Senthilkumar	2036	ksk_mit@rediffmail.com	Avionics, UAV systems, Aircraft Guidance & Control, Missile control system
2.	Dr.S.Thanigaiarasu	2034	thanigaiarasu@annauniv.edu sthanigaiarasu@mitindia.edu	Propulsion, High speed jets, Heat transfer, Aerodynamics
3.	Dr.V.Arumugam	2029	arumugam.mitaero@gmail.com	Composites, Flight Mechanics, NDT

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2. List of Degrees awarded during the period (01.05.2016 to 30.06.2017)

(i) Ph.D.

Sl.No.	Title of thesis	Name of the Scholar	Name of the Supervisor	Month & Year
1.	The control law design and evaluation of fully automated modern rotary wing UAV systems	Mr.A.Mohamed Rasheed,	Dr.K.Senthil Kumar	29/7/16
2.	Effect of Patch hybridization, reinforcements and environmental conditions on residual strength and damage modes of repaired composite laminates	Mr.J.Jefferson Andrew	Dr.V.Arumugam	11/11/16
3.	Effect of lip thickness and Bypass ratio on co-flowing jets	Mr.R.Naren Sankar	Dr.S.Thanigaiarasu	
4.	Effect of Hydrolytic ageing on the mechanical behavior of composite laminates using acoustic emission monitoring	Mr.C.Ramesh	Dr.A.Joseph Stanley Dr.V.Arumugam	23/1/17
5.	Shock cell structure decay and spread characteristics of noncircular supersonic jets	Mr.Prasanta Kumar Mohanta	Dr.B.T.N.Sridhar	27/4/17
6.	Optimization of oil cooler duct location for a pusher type turboprop aircraft	Mr.P.S.Premkumar	Dr.C.Senthilkumar	8/6/17

(ii) M.Phil NIL

(Iii) M.S (By Research)

Sl.No.	Title of thesis	Name of the Scholar	Name of the Supervisor	Month & Year
1.	Design and Development of Gimbal Stabilization system	M.Venkatesan	Dr.K.Senthilkumar	10/5/16
2.	Numerical Investigation of magneto plasma dynamic thruster performance	S.Vijayakumar	Dr.S.Thanigaiarasu	17/4/17

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(iii) M.E programme (AERO)

S. No.	Title of thesis	Name of the Scholar	Name of the Supervisor	Month Year
1	Studies on Cylindrical and tubular structures for Spacecraft Applications	D.Gayathri	Ms.S.Ilakkiya	May 2017
2	Experimental investigation of scalable underwater missile launching system	J.Sarathkumar Sebastin	Dr.K.M.Parammasivam	
3	Establishment of collapse factor for pressurizing cryogenic propellant for differ expulsion duration	B.Vasanth Kohila	Dr.J.Dheenadhayalan	
4	Flame Stabilization using circular truncated flame holder made of porous materials	P.Avinash	Dr.K.M.Parammasivam	
5	Estimation of Stability and control derivatives of sales powered UAV	T.Daniel Peace	Dr.S.Thanigaiarasu	
6	A Study of Powered para wing for Modified low weight flights	M.Dhanajayan	Dr.J.Dheenadhayalan	
7	Modeling and simulation of fused deposition modeling process	k.Ganesh Raja	Mrs.Leelavathy	
8	Aerodynamics Performance analysis of 3 Blades horizontal axis wind turbine with Implementation of rotor Blades	V.K.Kuberaganapathi	Dr.K.M.Parammasivam	
9	Nano Vacuum Plasma thruster	B.Madhan Kumar	Dr.K.M.Parammasivam	
10	Aerodynamics analysis of cleric-y air foil with multiple flaps	T.Madhan	Dr.J.Dheenadhayalan	
11	Computational Analysis of mixed Compression double ramp Scramjet Inlet	R.Mohammed Raseen	Dr.K.M.Parammasivam	
12	Designed analysis of flame deflect for testing rocket engine	N.Mohanraj	Dr.J.Dheenadhayalan	
13	Decay Characteristics of supersonic jet issuing from circular nozzle with semi-elliptic grooves	S.Naveen	Ms.Ilakkiya	
14	Computational Study on flame stabilization using circular truncated frustum flame	Pinto Rocky Simon	Dr.K.M.Parammasivam	
15.	Study on preparation of galli propellant and its Performances Characteristics	P.Prabhu Deva	Ms.Ilakkiya	
16.	Effect of Per-induced damages on composite by Ultrasonics	M.Prakash	Mrs.Leelavathy	

17.	Structural optimization of a Laminated Composite plate	B.Sanjay	Mrs.Leelavathy	
18.	Computational Study of Aerospace on Blunt body	T.Sivaraman	Mr.V.Suresh	
19.	Effect of Delamination behavior of tapered Composites with milled glass fiber file	R.Souhith	Dr.V.Arumugam	
20.	Drag reduction in square back vehicle by passive control technique	D.P.Sujay Iswarian Isaac	Mr.V.Suresh	
21.	Study of wall presume distribution of a sup nozzle with strut injection system	T.Thillaikumar	Dr.B.T.N.Sridhar	

(iii) M.E programme (Aerospace Technology)

S. No	TITLE OF THESIS	NAME OF THE SCHOLAR	NAME OF THE SUPERVISOR	MONTH & YEAR
1.	Influence of Stiffened patch repair on Composite Laminates	C.Anand	Dr.V.Arumugam	
2.	Numerical Simulation on a C-D nozzle floe with secondary liquid injection	S.Anusha	Dr.B.T.N.Sridhar	
3.	Experimental study of a supersonic flow issuing CD nozzle with secondary liquid injection	R.V.Barath	Dr.B.T.N.Sridhar	
4.	Numerical investigations on flow fields and mathematical modeling of dual combustion ramjet	Gautam Panchal	Mr.V.Suresh	
5.	Testing of Aerodynamics characteristics of modified gurney flap airfoil with nasa LS at different wind tunnels using CFD Analysis	S.R.Hari Rekeshan	Dr.J.Dheenadhayalan	
6.	Effect of Bio-filler inclusion on Mechanical properties of CFRP	S.Jotheeswaran	Dr.V.Arumugam	
7.	Experimental investigation on atomization 07 Gel simulant	A.Karishma	Dr.K.M.Parammasivam	
8.	Heat transfer and combustion analysis hydrocarbon nano fluid	C. Kirthana stephen	Dr.S.Thanigaiarasu	
9.	Investigation of damage tolerance analysis of composite laminates with lamina discontinuity	S.Kriuthika	Dr.V.Arumugam	
10.	Study on preparation of gelled propellant & its ligation characteristics	R.Mahumitha	Ms.S.Ilakkiya	
11.	Design analysis of high speed Aerospace vehicle	S.Manikandan	Dr.J.Dheenadhayalan	
12.	Study of flow features in a CD Nozzle will strut injection system	A.Monica Devi	Dr.B.T.N.Sridhar	

13.	Investigation of Resistance to Delaminating of interply composite laminates	Nibras Farouk	Dr.V.Arumugam	
14.	Characterization of Non-Circular twinjets	Rakesh divvela	Dr.S.Thanigaiarasu	
15.	Modification of MPO thruster and its performance analysis	M.Santhosh kumar	Dr.S.Thanigaiarasu	
16.	A Caustic characterization of a jet by using air tabs	H.Sathish	Dr.S.Thanigaiarasu	
17.	Flow over a stepped cavity injector in supersonic combustor	S.P.Shyamila	Dr.S.Thanigaiarasu	
18.	Experimental Investigation Aerodynamic characteristics of aero spike Nozzle	V.Sriram	Dr.K.M.Parammasivam	
19.	Low velocity impact studies on a laminates composite plate	G.Venkatesh	Mrs.Leelavathy	
20.	Investigation and Optimization of materials radome structure	Vishnu raj	Dr.V.Arumugam	
21.	Experimental study on supersonic jet issue it from circular nozzle with semicircular	P.Vivek	Ms.S.Ilakkiya	

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(iii) M.E programme (AVIONICS)

S.No	Title of thesis	Name of the scholar	Name of the supervisor	Month & year
1.	Development Of Hardware In Loop Test Bed For Mini Aerial Vehicle Gain Tuning	V.L.BHIM SHANKAR	Dr.G.Anitha	May 2017
2.	Object Tracking Using Kalman Filter	D.DHKSHNAMOORTHY	Mr.A.Kaviyarasu	
3.	Emergency Landing Area Detection For UAV Using Image Processing	P.KARKUVEL RAJAN	Dr.A.Saravanakumar	
4.	Autonomous UAV Safety Landing System For Multi-Rotor UAV	V.NANDAGOPALAN	Dr.G.Anitha	
5.	Development Of Automatic Arming And Return To Launch Algorithm For Remote UAS	S.ABDUL JAWAD	Dr.K.Senthilkumar	
6.	Development Of Heterogeneous AFDX ARINC 429 Network Gateway	H.A.ARUNA	Dr.G.Anitha	
7.	Simulation And Realization Of Laser Range Finder	S.AVINASH	Dr.K.Senthilkumar	
8.	Simulation Of Path Following Algorithms For UAV	G.DELHIDURAI	Dr.K.Senthilkumar	
9.	Design And Development Of Longitudinal Autopilot For Aircraft Landing	B.JAYAKUMAR	Mr.A.Kaviyarasu	
10.	Modelling And Simulation Of Fighter Aircraft Nose Wheel Steering System For Flight Simulator	V.KARTHIKEYAN	Dr.A.Saravanakumar	
11.	Behavior Prediction Of Radar Data For SAR Model Evaluation	B.KAVITHA	Dr.A.Saravanakumar	
12.	High Fidelity Laser Communication For Aural Alerting Systems	S.K.LEKSHMI	Dr.G.Anitha	
13.	Acoustic Based Tracking of Landing Phase Flight Of Fixed Wing Aircraft And Rotary Aircraft	R.MARY DARIS ROOSELIN	Dr.A.Saravanakumar	
14.	Aircraft Motion Parameters Estimation Using Acoustic Sensor	E.NITHYA	Dr.A.Saravanakumar	
15.	Multi-Sensor Data Fusion For Obstacle Avoidance	PAUL NEHEMIAH AUGUSTUS SANTHOSH	Dr.G.Anitha	
16.	Development Of Weather Radar Model For Mission Scenario in Fighter Aircraft	M.PRAVEEN	Mr.A.Kaviyarasu	
17.	Radiation Mapping In Post-Disaster Environments Using UAS	S.ROBERT CALDWEL	Dr.K.Senthilkumar	
18.	Brain Controlled Unmanned Vehicle	R.ROHINI	Dr.G.Anitha	
19.	Development Of a Video Stabilization Algorithm For UAV	R.SEETHALAKSHMI	Dr.A.Saravanakumar	

20.	Lidar Based 3D Mapping Using UAV	S.SURIYA	Dr.K.Senthilkumar	
21.	Multi Spectral Image Acquisition And Mapping For Precision Agriculture Using UAV	P.S.THENMOZHI	Dr.K.Senthilkumar	
22.	Charging For Aerial Vehicle Using Inductive Coupling	M.YELTSIN	Dr.G.Anitha	

3. Sponsored Research Projects during the period

Sl.No.	Name of the project	Name of the Co-ordinator	Sponsoring agency	Amount
1.	temperature effect on falling weight impact damage in composite laminates	Dr.V.Arumugam,	AR&DB DRDO	Rs. 16,24,584/-
2.	Experimental investigation scalable underwater missile launching system	Dr.K.M.Parammasivam	IEI Grant for R&D project	Rs 1,00,000/-

4. Industrial Consultancy and Testing undertaken during the period : NIL

Sl.No.	Title of the consultancy	Name of the Co-ordinator	Sponsoring Agency	Amount
1.				
2.				

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5.(a) Continuing Education Program /Training Program / Short term courses conducted during the period:

Sl.No.	Title of the program	Duration	No. of participants	Name of the co-ordinator	Sponsoring agency
1.	7 days FDTP Programme on "Fluid Mechanics and Machinery"	7-14 June 2017	40	Dr.C.Senthil kumar & Mr.V.Suresh	Anna University

5. (b) Continuing Education Programmes /Training programmes attended by the Faculty members in other institutions during the period

By staff members:

Sl.No.	Name of the faculty members	Duration	Name of the continuing Education program	Venue
1.	Dr.K.M.Parammasivam Professor	28 July 2017 29 July 2017	Air India Internship training	Mumbai
2.	Dr.K.M.Parammasivam Professor	23-24 July 2016	Hybrid Rocket Propulsion	USA
3.	Ms.Christal Jency, Teaching Fellow	19-22 July 2016	GATET Workshop on Aeroelastic Issues on Gas Turbine Blades	GTRE, Bangalore
4.	Mr.B.Kathiravan Teaching Fellow	4-9 July 2016	Fuel Combustion and Burner	IIT-Madras

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6. (a) Conferences / Seminars / Symposia / Workshops conducted by the Department during the period:
NIL

Sl.No.	Name of the Conferences / Seminars / Symposium / Workshop	Duration	No. of participants	Venue	Sponsoring Agency
1.	"Launch of SAE India Aero Design Challenge 2017"	14 Oct 2016	100	Anna University	SAE India Southern Section and Centre for Aerospace Research
2.	5 th National Conference on "Wind Tunnel Testing" (NCWT 05)	16-17 March 2017	120	MIT	Dept of Aerospace Engineering and CSIR-Structural Engg Research Centre, Chennai

6. (b) Conferences / Seminars /Symposia / Workshops attended by the Faculty members during the period:

Sl.No.	Name of the staff and designation	Name of Conferences / Seminars /Symposia / Workshops	Duration	Venue
1.	Dr.K.M.Parammasivam	52nd AIAA/SAE/ASEE Joint Propulsion Conference, Propulsion and Energy Forum,	23-24 July 2016	USA
2..	Dr.K.Senthilkumar	Recent Trends in Unmanned Aerial Vehicles (UAV)"	6/1/17	
3.	Dr.K.Senthilkumar	Space Technology	16/3/17	Umiam, Shillong, Meghalaya.

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7. Foreign visits by the faculty members during the period:

Sl.No.	Name of the staff and designation	Name of country visited	Duration	Purpose / Programme
1.	Dr.K.Senthilkumar Asso Prof	China	4-15 June 2016	To attend International level Exhibition
2.	Dr.C.Senthil Kumar	UK	19-21 July 2016	To attend International Conference
3.	Dr.K.M.Parammasivam	USA	25-27 July 2016	To attend International Conference
4.	Dr.K.Senthilkumar Asso Prof	Beijing, Shenzhan, Shanghai	14-30 June 2017	Ongoing and future projects related to UAV
5.	Dr.C.Senthil Kumar	UK	27/4/17 – 9/5/17	Personal

8. Invited lectures delivered by the faculty members during the period

I.No.	Name and Designation	Dept of the faculty members	Address of organized institute	Month & year	Name of the program
1.	Dr.B.T.N.Sridhar Professor & Head	Aero	IIIT-DM Kancheepuram	10/10/16	Valedictory function of World Space Week 2016
2.	Dr.K.M.Parammasivam Professor	Aero	Institution of Engineers	25-26 Nov 2016	National Seminar on Aerospace Engineering

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9. Honours / Awards received from State / National / International bodies by the AU faculty members during the period :

Sl.No.	Name of the faculty member	Designation	Name of the Honours / Awards	Name of the institution / organization
1.	Mr.A.Kaviyarasu	Assistant Professor	ELMER AWARD	American Radio Relay League Mentor Program in recognition for providing unselfish and benevolent assistant to the radio operator.
2.	Mr.A.Kaviyarasu	Assistant Professor	Certificate of Excellence "Shiksha Ratan Award	Economic Growth Foundation on 24 th September 2016 at Delhi
	Dr.A.Saravanakumar, Mr.B.Madhan kumar, Mr.R.Souhith	Asst. Prof. ME (Aero) students	3 rd prize under the 8 th batch Student innovative project – Research Support Scheme Project titled "Design and Implementation of solar sails as auxiliary propulsion system"	CTDT, AU March – Sept 2016

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10. Details of Visitors to the departments during the period

S.No.	Name of the visitor	Full address	Purpose of visit	Date of visit
1.	Sri Ramakrishnan .	GATE Aerospace Forum	Guest lecture	17/8/16
2.	Aero Alumni	Jet Airways, Mumbai	Practical training	20-21 Aug 2016
3.	Sri T.Mohan Chandran	Aviation Consultant & Advisor	Interaction between students	28/9/16
4.	Sri Cuneyt Oge	SAE India Southern Section and Centre for Aerospace Research	Chief Guest	14/10/16
5.	Shri C.D. Balaji	Distinguished Scientist, Programme Director (Combat Aircraft) & Director, ADA, Bengaluru	Inaugural address NCWT 05	16-17 March 2017
6.	Shri Jitendra J Jadhav,	Director, CSIR-NAL, Bengaluru	Key note address NCWT 05	16-17 March 2017
7.	Dr.S.Ganesan,	Registrar, AU	presidential address NCWT 05	16-17 March 2017
8.	Shri C.U. Hari	Former Director (Aeronautics) & Secretary (AR&DB), Ministry of Defence, DRDO Headquarters	Chief Guest for valedictory function NCWT 05	16-17 March 2017
9.	Dr.K.Jayaraman	Former Registrar, AU	Presidential address for valedictory function NCWT 05	16-17 March 2017

11. Instruments / Equipment purchased cost more than Rs 1.00 lakh during the period: NIL

Sl.No.	Name of the Equipment	Features of equipment	Purchase cost (Rs.)
1.			

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12. Research papers presented in the National Conference /Seminar / Symposia / Workshops during the period: NIL

Sl.No.	Title	Authors Name	Name & addresses of venue	Month and year
1.				

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13. Research papers presented in the International Conference /Seminar / Symposia / Workshops during the period

Sl.No.	Name of the conference / Title of the papers	Authors Name	Name and addresses of venue	Month and year
1.	"A study on VGTM actuation system for multi axis morphing wing of UAV" 34 th AIAA Applied Aerodynamics Conference	P.Shanmugam, F. Zohra, K.M.Parammasivam,	USA	13-17 June 2016
2.	"2016 Applied Aerodynamics: Evolution & Innovation continues – The next 150 years of concepts, design and operations conference"	Dr.C.Senthilkumar	Bristol Science Centre, UK	19-21 July 2016
3.	AIAA, Propulsion & Energy Conference "Computational Analysis of Flame Stabilization using Strong Swirl for Afterburner Applications"	Dr.K.M.Parammasivam,	Salt Palace Convention Centre, Salt lake city Utah, USA	25-27 July 2016,
4.	Computational Analysis of Flame Stabilization Using Strong Swirl for Afterburner Applications	K. M. Parammasivam, Devanathan D, Suganya Gunasekar, and Abdul Basidh.	52nd AIAA/SAE/ASEE Joint Propulsion Conference, Propulsion and Energy Forum	AIAA 2016
5.	Experimentation of Flame Stabilization Using Strong Swirl for Afterburner Applications	K. M. Parammasivam, Devanathan D, Suganya Gunasekar, and Abdul Basidh	Asian Congress on Gas Turbines 2016 IIT, Mumbai	14-16, Nov 2016
6.	Experimentation of Flame Stabilization using Porous Material by Image Processing technique for Afterburner Applications	K. M. Parammasivam, Suganya Gunasekar, Devanathan D and Abdul Basidh,	Asian Congress on Gas Turbines 2016 IIT, Mumbai	14-16, Nov 2016

7.	Experimental Studies on End wall Film cooling in a gas Turbine Cascade with Cylindrical Holes	K. M. Parammasivam, Ramkumar S, Gowtham M, and Devanathan D	Asian Congress on Gas Turbines 2016 IIT, Mumbai	14-16, Nov 2016
8.	Experimentation of Flame Stabilization using Porous Material for Afterburner Applications	K. M. Parammasivam, Abdul Basidh, Suganya Gunasekar, and Devanathan D	Asian Congress on Gas Turbines 2016 IIT, Mumbai	14-16, Nov 2016
9.	An Experiment on Solid Propellant combustion, Evaluate the propellant properties by proposed impulse measuring system	K M Parammasivam, Sebastin S,	International conference on Mathematical sciences & engineering Applications- ICMSEA-2016, BITS, Vizag.	23-25, Dec 2016
10.	Studies on Porous Material flame holders for afterburner applications	Avinash P, Parammasivam K M,	International conference on Frontiers in engineering, applied sciences and Technology, (FEAST 2017) NIT Trichy.	31/3/17 01/4/17, pp63-69
11.	Computational study on flame stabilization using circular truncated frustrum	Ricky Pinto and Parammasivam,K.M.	International conference on Frontiers in engineering, applied sciences and Technology, (FEAST 2017) NIT Trichy.	31/3/17 1/4/17, pp149-153
12.	Performance Evaluation of a Scramjet Inlet-Isolater model with varying second ramp inclination using CFD	Mohammed Raseen, Ricky Pinto and Parammasivam K M	International conference on Frontiers in engineering, applied sciences and Technology, (FEAST 2017) NIT, Trichy.	31/3/17 1/4/17, pp174-180
13.	Aerodynamic performance analysis of horizontal axis wind turbine with implementation of slots in rotor blades	Kuberaganapathy Parammasivam,K.M. Gomathinayagam	Second international Conference on Mechanical and Manufacturing Engineering (ICMME 2017)	6-7, April 2017.
14.	Low-Cost Smart Watering System in Multi-soil and	Sudheer Kumar Nagothu, G Anitha	Proceedings of the First International Conference on Computational	637-643 2017

	Multi-crop Environment Using GPS and GPRS		Intelligence and Informatics	
15.	INS-GPS integrated aid to partially vision impaired people using Doppler sensor	Sudheer Kumar Nagothu, G Anitha	3rd International Conference on Advanced Computing and Communication Systems (ICACCS), 2016	2016/1/22 Vol.1 1-4

14. Books published during the period :

(a) Books published: NIL

Sl.No	Title	Author's Name	Name of the publisher	Year
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(b) Journals published
INTERNATIONAL JOURNALS

Sl.No	Title	Author's Name	Name of the publisher	Year
1.	Wind Forces on rotating small wind turbine blade tip using wind tunnel measurements	P.Saravanan K.M.Parammasivam	Asian Journal of Research in Social Sciences and Humanities	Vol. 6 No. 5 pp 41-52 May 2016
2.	Effect of Hole Orientation on Laid Back Hole Film Cooling	D. Ravi K.M. Parammasivam	Middle-East Journal of Scientific Research	623-630, 2017, ISSN 1990-9233
3.	Computation Studies on End-Wall Film Cooling from a Single Row of Film Holes for the Three Different Geometry at Different Orientations	D. Ravi K.M. Parammasivam	Middle-East Journal of Scientific Research	90-94, 2017,
4.	Computational and Experimental Investigations on Aerodynamic Characteristics of a Hatchback model car using Base Bleed	K Selvakumar Parammasivam K M	Journal of Advances in Chemistry	Vol.13 No.4 Pp 6151-6160 2017
5.	Numerical and Experimental Investigations of drag force on scaled car model	P N Selvarasu, Parammasivam K M	Thermal Science	Vol.20 Supple 4 2016
6.	A CFD analysis of controlled Flutter Phenomenon	T Velmuragan, Parammasivam K M	Thermal Science	Vol. 20 Suppl 4 2016

7.	Experimentation of Flame Stabilisation using Flat Plate Gutter made of Porous Materials for Afterburner Applications	Parammasivam K M, Suganya G, Abdul Basidh N, Devanathan D	JoAET	Vol. 6 Issue 2 Pp 71-76 2016
8.	Computational Fluid Dynamic Analysis of Aerodynamic characteristics of NACA 4412 Vs S 809 Airfoil for wind turbine applications	B.Navin kumar, K.M.Parammasivam , M.Prasanna and A.Z.G Mohamed Karis	Int J Adv Engg Tech	Vol. VII Issue III July-Sep 2016
.9.	Investigation on the design parameters of an aero-elastic wind energy generator	T.Velmurugan, and K.M.Parammasivam	Journal of the Balkan Tribological Association	Vol.22 No. 1A-11, 844-860
10.	<u>Effect of patch hybridization on the compression behavior of patch repaired glass/epoxy composite laminates using acoustic emission monitoring</u>	J Jefferson Andrew, V Arumugam	Polymer Composites	May 2016
11.	<u>Residual strength and damage characterization of repaired glass/epoxy composite laminates using AE and DIC</u>	J Jefferson Andrew, V Arumugam, DJ Bull, Hom Nath Dhakal	Composite Structures	Feb 2016 P 124 - 139
12.	Role of Surface Micro Asperities on the Wetting Behavior of Stress-Induced Stainless Steel Surfaces	Vivek Anand Annakodi, Arumugam V, Kannan R	International Journal of Surface Science and Engineering.	
13.	, Failure strength prediction of glass/epoxy composite laminates from acoustic emission parameters using artificial neural network,	Suresh Kumar , V.Arumugam , S.Srinivasan , Senkuttuvan velusamy , Hom Dhakal	Journal of Applied acoustics	Elsevier Publishers
15.	Static wetting characteristics of micro-textured stainless steel surfaces under uniaxial loading condition.	Vivek Anand, V. Arumugam R. Kannan	International Journal of Surface Science and Engineering	Vo. 11 No.2 2017

16.	Comparison on mechanical properties of lignocellulosic flour epoxy composites prepared by using coconut shell, rice husk and teakwood as fillers	S.Sajith, V.Arumugam.V Hom Dhakal	Journal of polymers and Environment	
17.	Quasi- static indentation properties of damaged glass/epoxy composite laminates repaired by the application of intra-ply hybrid patches.	J. Jefferson Andrew V. Arumugam C. Ramesh S. Poorani C. Santulli	Polymer Testing 61	2017 132-145
18.	Effect of patch hybridization on the tensile behaviour of patch repaired glass/epoxy composite laminates using acoustic emission monitoring.	J. Jefferson Andrew\ V.Arumugam	International Journal of Adhesion & Adhesives	74 (2017) 155–166
19.	Vision-Based Heading and Lateral Deviation Estimation for Indoor Navigation of a Quadrotor	Anbarasu B Anitha G	IETE Journal of Research Publisher: TAYLOR & FRANCIS	2017/2/15
20.	GPS Aided Autonomous Monitoring and Attendance System	G Anitha Sudheerkumar Nagothu	Journal of Procedia Computer Science	2016/12/31 Volume 87 99-104
21.	Design of Hybrid Guidance Law for Homing Missile on a Stabilized Seeker Platform	S.Senthilkumar G.Anitha	International Journal of Innovative Research in Science, Engineering and Technology IJIRSET	Volume 5 Issue 9 746-758 2016
22.	Design and development of coaxial Rotorcraft	Nithiyanandam.K.K, Anitha.G	Australian Journal of Basic and Applied Sciences, AENSI	Vol.10 Issue 5 95-102 2016
23.	Vision-based runway recognition and position estimation for UAV autonomous landing	Anitha, G , B Anbarasu	Australian Journal of Basic and Applied Sciences	Volume 10 Issue 5 Pages 83-94 2016

NATIONAL JOURNALS

SI.No	Title	Author's Name	Name of the publisher	Year
1.	Goal Directed Approach to Autonomous Motion Planning for Unmanned Vehicles	David Boon Moses & G Anitha	Defence Science Journal, DESIDOC	Volume 67 Issue 1 Pages 45-49 2017

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Any other matter

- Dr.V.Arumugam, Associate Professor participated in a review meeting at ISRO Satellite Centre in connection with Microsatellite project on 9/5/16.
- Dr.K.M.Parammasivam, Professor attended as External Expert of the Staff Selection Committee held on 9/5/16 at Valliammal Engineering College.
- Dr.C.Senthil kumar has been nominated as an External Examiner to conduct the viva voce exam for M.Tech. and Dual degree students of Dept of Mechanical Engg at IIT, Madras on 10/5/16.
- Dr.S.Thanigaiarasu, Associate Professor attended AR&DB Sigma Project presentation at ADE, Bangalore on 13/5/16.
- Dr.B.T.N.Sridhar attended 132nd Governing Council Meeting of PSG College of Technology and 133rd Government Council Meeting of the PSG Polytechnic College on 20/5/16
- Dr.K.M.Parammasivam, Professor was nominated as Anna University Co-ordinator for Chennai City Zone for TANCET 2016.
- Dr.A.Sarvanakumar & Mr.V.Suresh have been nominated as Anna University Representative for TANCET 2016
- Attended a meeting at ASL, Hyderabad on 15/6/16 for sponsored project on “Development of Mathematical Model for prediction of energy loss in canister during missile launching” by Dr.C.Senthilkumar
- Dr.V.Arumugam has gone to Delhi for project presentation meeting on 18/7/16
- Dr.S.Thanigaiarasu conducted DC meeting at Regional Campus of Anna University, Tirunelveli on 22/7/16.
- Dr.C.Senthilkumar, Assistant Professor (SG) conducted the DC meeting in the Dept of Mechanical Engg, Regional Campus Anna University, Tirunelveli on 1/8/2016.
- Dr.K.Senthilkumar attended the sigma panel meeting for the project titled “Design and Development of vertical takeoff and horizontal transition UAV system” on 5/8/16 at ADE, DRDO, Bangalore
- Dr.K.M.Parammasivam, Professor, nominated to serve as a member of BOS for Aero, Auto, Mechatronics and Agriculture of SNS College of Technology, Coimbatore for two years 2016-17, 2017-18.
- Dr.K.M.Parammasivam, Professor was acted as a subject expert for the Board of studies meeting on 19/9/16 in SNS College of Technology, Coimbatore
- Dr.B.T.N.Sridhar visited M/s. Pratt & Whitney Customer Trainer Centre and DRDL, Hyderabad on 23/9/16.
- Dr.S.Thanigaiarasu, Associate Professor, was nominated as one of the Doctoral Committee members and conducted a meeting for a Ph.D. scholar at Government College of Technology, Coimbatore on 30/9/16.
- Dr.B.T.N.Sridhar attended BOS meeting at Hindustan College of Engg & Tech, Coimbatore on 6th October, 2016
- Dr.K.M.Parammasivam attended BOS meeting on 5th October 2016.
- Mr.P.Vijayakumar, Lab Assistant joined in the Dept of Aerospace Engineering on 21/11/16.
- Dr.B.T.N.Sridhar, Dr.K.Senthilkumar & Dr.V.Arumugam visited Nehru Institute of Technology, Coimbatore for inspection on 2/11/16.
- Dr.C.Senthilkumar, Assistant Professor (SG) attended the first progress review meeting of the sponsored project titled “Evaluation of stall characteristics of wing & control surface and overall characteristics of a typical missile configuration” at DRDL, Hyderabad on 16/12/16.
- Mr.A.Kaviyarasu, Assistant Professor accompanied the final year BE (Aero) students for flight training at IIT, Kanpur during 14-23 December 2016.
- Dr.V.Arumugam, Associate Professor visited ISRO Satellite Centre in connection with Microsatellite project on 22.12.16

- Dr.V.Arumugam, Associate Professor visited ISRO Satellite Centre in connection with Microsatellite project during 26/12/16 – 30/12/16.
- Dr.C.Senthilkumar, Assistant Professor (SG) attended the AR&DB Panel meeting on 19/1/17 at Bangalore,
- Dr.C.Senthilkumar (SG) conducted a Doctoral Committee Meeting of N.Vivek Masthiraj , Mechanical Engineering Department, Government College of Technology, Coimbatore on 27/1/2017
- Dr.K.Senthilkumar was deputed for crowd monitoring activity at Sabarimala on 12/1/17 & 13/1/17.
- Attended Project Review Interface meeting at UGC, New Delhi by Dr.K.M.Parammasivam on 27-28 February 2017
- Affiliated college inspection by Dr.V.Arumugam on 22/2/17
- Affiliated college inspection by Dr.S.Thanigaiarasu on 27/2/17
- Dr.K.Senthilkumar attended Aero India workshop at Bangalore on 14/2/17 – 18/2/17
- Dr.K.Senthilkumar was deputed for crowd monitoring at Isha Yoga Centre, Coimbatore on 23/2/17 and 24/2/17
- BOS meeting at LBRC, Mylavaram, Vijayawada by Dr.S.Thanigaiarasu on 4/3/17
- Attended AR&DB Sigma Panel Meeting project presentation at ADE, Bengaluru on 21/3/17. By Dr.S.Thanigaiarasu, accompanied by Mr.Arunprasad, Teaching Fellow
- Dr.C.Senthilkumar attended Preliminary design review of Akash-NG Aerodynamics System meeting on 2-3 March 2017 at DRDL, Hyderabad
- Affiliated college inspection by Dr.S.Thanigaiarasu on 1/3/17 & 2/3/17,4/3
- Affiliated college inspection by Dr.B.T.N.Sridhar on 27-28 & 31 March 2017
- Affiliated college inspection by Dr.K.M.Parammasivam on 13/3/17 & 31/3/17
- Affiliated college inspection by Dr.V.Arumugam on 8/3/17 & 13/3/17
- Sigma Panel meeting attended by Dr.K.Senthilkumar, at Bangalore on 21/3/17 & 22/3/17.
- Dr.K.M.Parammasivam visited Air India, Mumbai for a training with Dean, MIT on 28/4/17
- Board of Meeting attended by Dr.K.M.Parammasivam in the Department of Aerospace Engineering, Adhiyamaan College of Engineering on 18/4/17
- Dr.K.Senthilkumar has gone to Assam during 10/4/17 – 12/4/17 for a demo of Unmanned Aerial Vehicle.
- Ms.Christal Jency, Teaching Fellow has resigned and relieved on 13/4/17
- Board of Studies meeting at HICET, Coimbatore on 12-13 May 2017 attended by Dr.B.T.N.Sridhar
- Dr.C.Senthil kumar was appointed as an External expert member in the Dept. Advisory Committee at Periyar Maniammai University. Thanjavur, and attended a meeting on 19/5/17.
- Dr.C.Senthilkumar attended Second progress review meeting of CARS project at DRDL, Hyderabad on 23/5/17
- Dr.V.Arumugam has gone to ISRO Satellite Centre, Bangalore with Microsatellite Projection during 11-19 May 2017
- Dr.K.M.Parammasivam was invited to act as Chief Guest for FDP on Composite Materials and Mechanics on 24/5/17 at University College of Engineering, Villupuram.
- Dr.K.M.Parammasivam attended Board of Studies meeting of Noorul Islam University on 26/5/17
- Dr.B.T.N.Sridhar – Member of a peer review team of NAAC for re-assessment of Jain University, Bangalore on 7-9 June 2017

Patents filed

1. **C.Senthil Kumar** and M.Ramakrishna (2016), "Sinusoidal Toothed Leading Edge Delta Wings", 201641018605.
2. **C.Senthil Kumar** and M.Ramakrishna (2016), "Saw toothed Leading Edge Delta Wings", 201641018606.