

**AERONAUTICAL ENGINEERING**

**No. of Research Papers Published by the faculty members in the last five years (2018-2022)**

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of
<b>2018</b>								
Computational analysis of blended winglet model performance by varying cant angle	Dr G Ramanan	Aeronautical	Journal of Computational and Theoretical Nanoscience	2018	1546-1963	<a href="http://www.aspbs.com/ctn/">http://www.aspbs.com/ctn/</a>	<a href="http://www.aspbs.com/ctn/">http://www.aspbs.com/ctn/</a>	SCOPUS
Prediction of responses in FSW processed hybrid composites using soft computing technique	Dr G Ramanan	Aeronautical	Journal of Computational and Theoretical Nanoscience	2018	1546-1963	<a href="http://www.aspbs.com/ctn/">http://www.aspbs.com/ctn/</a>	<a href="http://www.aspbs.com/ctn/">http://www.aspbs.com/ctn/</a>	SCOPUS
Experimental Study on Change in Mechanical Characteristics of E-Glass Fibre Reinforced Epoxy Composite by Adding Carbon Nanotube Layers	Albert Allen D mello and G.Ramanan	Aeronautical	Asian Journal of Chemistry	2018	0970-7077	<a href="http://www.asianjournalofchemistry.co.in/Home.aspx">http://www.asianjournalofchemistry.co.in/Home.aspx</a>	<a href="http://www.asianjournalofchemistry.co.in/user/journal/viewarticle.aspx?ArticleID=31_6_11">http://www.asianjournalofchemistry.co.in/user/journal/viewarticle.aspx?ArticleID=31_6_11</a>	SCOPUS
Effect of Carbon Nanotube Layers on Change in Mechanical Characteristic of E-Glass Fiber Reinforced Epoxy Composite	Albert Allen D mello, G.Ramanan and Dhanya Prakash R Babu	Aeronautical	International Journal of Innovative Technology and Exploring Engineering	2018	2278-3075	<a href="https://www.ijitee.org/">https://www.ijitee.org/</a>	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i4/D2613028419.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i4/D2613028419.pdf</a>	SCOPUS
Wear characteristics of titanium carbides and MOS 2 reinforced aluminium hybrid composites	Dr G Ramanan	Aeronautical	International Journal of Mechanical and Production Engineering Research and Development,	2018	ISSN: 22496890	<a href="http://www.tjprc.org/">http://www.tjprc.org/</a>	<a href="http://www.tjprc.org/journals/journal-of-mechanical-engineering">http://www.tjprc.org/journals/journal-of-mechanical-engineering</a>	SCOPUS
Buckling analysis of stiffened panels under Fuselage bending	Dr G.Ramanan	Aeronautical	International Journal of Engineering and Technology(UAE)	2018	ISSN: 2227524X	<a href="http://www.ijetch.org/">http://www.ijetch.org/</a>	<a href="https://www.sciencepubco.com/index.php/ijet/article/view/17073">https://www.sciencepubco.com/index.php/ijet/article/view/17073</a>	SCOPUS
Prediction of machining characteristics of hybrid composites using response surface methodology approach	Dr G.Ramanan	Aeronautical	International Journal of Engineering and Technology(UAE)	2018	ISSN: 2227524X	<a href="http://www.ijetch.org/">http://www.ijetch.org/</a>	<a href="https://www.researchgate.net/publication/327838518_Prediction_of_Machining_Characteristics_of_Hybrid_Composites_Using_Response_Surface_Methodology_Approach">https://www.researchgate.net/publication/327838518_Prediction_of_Machining_Characteristics_of_Hybrid_Composites_Using_Response_Surface_Methodology_Approach</a>	SCOPUS
Optimization of machining characteristics of hybrid composites using grey relational technique	Dr G Ramanan	Aeronautical	Int. Journal of Engineering and Technology (UAE)	2018	2227-524X	<a href="https://www.sciencepubco.com/index.php/ijet/article/view/17077">https://www.sciencepubco.com/index.php/ijet/article/view/17077</a>	<a href="https://www.sciencepubco.com/index.php/IJET">https://www.sciencepubco.com/index.php/IJET</a>	SCOPUS
The performance improvement analysis of rotor induced vibrations in helicopter structure	Dr G.Ramanan	Aeronautical	International Journal of Mechanical and Production Engineering Research and Development	2018	ISSN: 22496890	<a href="http://www.tjprc.org/">http://www.tjprc.org/</a>	<a href="http://www.tjprc.org/conference-archives.php?cid=15298">http://www.tjprc.org/conference-archives.php?cid=15298</a>	SCOPUS

Evaluation of stress intensity factor of fracture model for glass fiber epoxy resin composite	Dr G Ramanan	Aeronautical	Int. Journal of Mechanical and production Engineering research and Development	2018	2249-6890	<a href="http://www.tjprc.org/view-archives.php?page=75&amp;keyword=&amp;from_date=&amp;to_date=&amp;id=67&amp;itype=2&amp;iournal=67">http://www.tjprc.org/view-archives.php?page=75&amp;keyword=&amp;from_date=&amp;to_date=&amp;id=67&amp;itype=2&amp;iournal=67</a>	<a href="http://www.tjprc.org/journals/journal-of-mechanical-engineering">http://www.tjprc.org/journals/journal-of-mechanical-engineering</a>	SCOPUS	
Parametric Optimization of Wire Cut Electrical Discharge Machining on Al-9% PAC Composites using Desirability Approach	Dr G Ramanan	Aeronautical	International Journal of Vehicle Structures & Systems	2018	0975-3060	<a href="https://maftree.org/eia/index.php/ijvss">https://maftree.org/eia/index.php/ijvss</a>	<a href="https://trid.trb.org/view/1591052">https://trid.trb.org/view/1591052</a>	SCOPUS	
<b>2019</b>									
Multi-objective optimization of AWJM of lead tin alloy by GRA	Dr G Ramanan	Aeronautical	International Journal of Recent Technology and Engineering	2019	2277-3878	<a href="https://www.ijrte.org/">https://www.ijrte.org/</a>	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i2S3/B101207825319.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i2S3/B101207825319.pdf</a>	SCOPUS	
Characterization, wear surface roughness and tensile failure analysis of Al7075-TiC-MoS2 hybrid composites using online acoustic emission	Dr G Ramanan	Aeronautical	Materials Research Express	2019	2053-1591	<a href="https://iopscience.iop.org/journal/2053-1591">https://iopscience.iop.org/journal/2053-1591</a>	<a href="https://iopscience.iop.org/article/10.1088/2053-1591/ab0d7a">https://iopscience.iop.org/article/10.1088/2053-1591/ab0d7a</a>	SCI	
Experimental wear study between piston ring and cylinder liner pair with mahua oil as lubricant for automobiles	Dr G Ramanan	Aeronautical	International Journal of Vehicle Structures and Systems	2019	0975-3060	<a href="https://maftree.org/eia/index.php/ijvss">https://maftree.org/eia/index.php/ijvss</a>	<a href="https://maftree.org/eia/index.php/ijvss/article/view/1319">https://maftree.org/eia/index.php/ijvss/article/view/1319</a>	SCOPUS	
Processing and characterization of mechanical and wear behavior of Al7075 reinforced with B4C and nano graphene hybrid composite	Dr G Ramanan	Aeronautical	Materials Research Express	2019	2053-1591	<a href="https://iopscience.iop.org/journal/2053-1591">https://iopscience.iop.org/journal/2053-1591</a>	<a href="https://iopscience.iop.org/article/10.1088/2053-1591/ab6263">https://iopscience.iop.org/article/10.1088/2053-1591/ab6263</a>	SCI	
Growth of Ni-Cu-Zn electrolyte coated thin layer carbon fiber reinforced aluminium composite	Dr G Ramanan	Aeronautical	Materials Research Express	2019	2053-1591	<a href="https://iopscience.iop.org/journal/2053-1591">https://iopscience.iop.org/journal/2053-1591</a>	<a href="https://iopscience.iop.org/article/10.1088/2053-1591/ab6401">https://iopscience.iop.org/article/10.1088/2053-1591/ab6401</a>	SCI	
Multi-objective optimisation of transesterified Jatropa curcas oil using response surface methodology and grey relational analysis	Dr G Ramanan	Aeronautical	International Journal of Ambient Energy,	2019	ISSN: 01430750	<a href="https://publons.com/journal/11888/international-journal-of-ambient-energy/">https://publons.com/journal/11888/international-journal-of-ambient-energy/</a>	<a href="https://www.researchgate.net/publication/333706251_Multi-objective_optimization_of_transesterified_Jatropa_Curcas_oil_using_response_surface_methodology_and_grey_relational_analysis">https://www.researchgate.net/publication/333706251_Multi-objective_optimization_of_transesterified_Jatropa_Curcas_oil_using_response_surface_methodology_and_grey_relational_analysis</a>	SCI	
Performance analysis of Navigation with Indian Constellation satellites	Prof. P.Soma	Aeronautical	Journal of King Saud University Engineering Sciences	2019	2213-1558	<a href="https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences">https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences</a>	<a href="https://www.sciencedirect.com/science/article/pii/S101836391930087X">https://www.sciencedirect.com/science/article/pii/S101836391930087X</a>	SCOPUS	
Analysis of signal strength, satellite visibility, position accuracy and ionospheric TEC estimation of IRNSS	Prof. P.Soma	Aeronautical	Astrophysics and Space Science	2019	1572-946X	<a href="https://www.springer.com/journal/10509">https://www.springer.com/journal/10509</a>	<a href="https://link.springer.com/article/10.1007/s10509-019-3676-z">https://link.springer.com/article/10.1007/s10509-019-3676-z</a>	SCI	

Cokriging based statistical approximation model for forecasting Ionospheric VTEC during high solar activity and storm days	Prof. P.Soma	Aeronautical	Astrophysics and Space Science	2019	1572-946X	<a href="https://www.springer.com/journal/10509">https://www.springer.com/journal/10509</a>	<a href="https://link.springer.com/article/10.1007/s10509-019-3612-2">https://link.springer.com/article/10.1007/s10509-019-3612-2</a>	SCI
Prediction of Ionospheric Vertical Total Electron Content from GPS data using Ordinary Kriging-based Surrogate Model	Prof. P.Soma	Aeronautical	Astrophysics and Space Science	2019	1572-946X	<a href="https://www.springer.com/journal/10509">https://www.springer.com/journal/10509</a>	<a href="https://link.springer.com/article/10.1007/s10509-019-3502-7">https://link.springer.com/article/10.1007/s10509-019-3502-7</a>	SCI
Prediction of Ionospheric Vertical Total Electron Content from GPS data using Ordinary Kriging-based Surrogate Model	Prof. P.Soma	Aeronautical	Astrophysics and Space Science	2019	1572-946X	<a href="https://www.springer.com/journal/10509">https://www.springer.com/journal/10509</a>	<a href="https://link.springer.com/article/10.1007/s10509-019-3502-7">https://link.springer.com/article/10.1007/s10509-019-3502-7</a>	SCI
<b>2020</b>								
A Novel Detection of Defects in Al-SiC Composite by Active Pulsed Infrared Thermography	Dr G.Ramanan	Aeronautical	Transactions of the Indian Institute of Metals	2020	0972-2815	<a href="https://www.springer.com/journal/12666">https://www.springer.com/journal/12666</a>	<a href="https://link.springer.com/article/10.1007/s12666-020-02074-9">https://link.springer.com/article/10.1007/s12666-020-02074-9</a>	SCI
Characterization, corrosion and failure strength analysis of Al7075 influenced with B <sub>4</sub> C and Nano-	Dr G.Ramanan	Aeronautical	Materials Research Express	2020	2053-1591	<a href="https://iopscience.iop.org/journal/2053-1591">https://iopscience.iop.org/journal/2053-1591</a>	<a href="https://iopscience.iop.org/article/10.1088/2053-1591/ab6257">https://iopscience.iop.org/article/10.1088/2053-1591/ab6257</a>	SCI
Fabrication of Maglev Assisted Take-Off System	Arun A K	Aeronautical	SSRG International Journal of Mechanical Engineering	2020	2348 - 8360	<a href="https://www.internationaljournalsrrg.org/IJME/index.html">https://www.internationaljournalsrrg.org/IJME/index.html</a>	<a href="http://www.internationaljournalsrrg.org/IJME/2020/Volume7-Issue9/IJME-V7I9P102.pdf">http://www.internationaljournalsrrg.org/IJME/2020/Volume7-Issue9/IJME-V7I9P102.pdf</a>	SCOPUS
Aerodynamic Analysis Of Isolated 3 Bladed Helicopter With Supercritical Airfoil	Inamul Hasan M	Aeronautical	Solid State Technology	2020	0038-111X	<a href="http://solidstatetechnology.us/index.php/JSST/">http://solidstatetechnology.us/index.php/JSST/</a>	<a href="https://solidstatetechnology.us/index.php/JSST/article/view/3497">https://solidstatetechnology.us/index.php/JSST/article/view/3497</a>	SCOPUS
Performance analysis of Navigation with Indian Constellation Satellites	Prof. P.Soma	Aerospace	Journal of King Saud University	2020	1018-3639	<a href="https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences">https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences</a>	<a href="https://www.sciencedirect.com/science/article/pii/S101836391930087X">https://www.sciencedirect.com/science/article/pii/S101836391930087X</a>	SCOPUS
Ordinary kriging - and cokriging - based surrogate model for ionospheric TEC prediction using NavIC/GPS	Prof. P.Soma	Aerospace	Acta Geophysica	2020	1895-7455	<a href="https://www.springer.com/journal/11600">https://www.springer.com/journal/11600</a>	<a href="https://link.springer.com/article/10.1007/s11600-020-00473-6">https://link.springer.com/article/10.1007/s11600-020-00473-6</a>	SCI
Prediction of TEC using NavIC/GPS data with geostatistical method/forecasting	Prof. P.Soma	Aerospace	Astrophysics and Space Science	2020	1572-946X	<a href="https://www.springer.com/journal/10509">https://www.springer.com/journal/10509</a>	<a href="https://link.springer.com/article/10.1007/s10509-020-03868-5">https://link.springer.com/article/10.1007/s10509-020-03868-5</a>	SCI
Forecasting of ionospheric TEC for different latitudes, seasons and solar activity conditions based on OKSM	Prof. P.Soma	Aerospace	Astrophysics and Space Science	2020	1572-946X	<a href="https://www.springer.com/journal/10509">https://www.springer.com/journal/10509</a>	<a href="https://link.springer.com/article/10.1007/s10509-020-3730-x">https://link.springer.com/article/10.1007/s10509-020-3730-x</a>	SCI
<b>2021</b>								

Computational Analysis of Base Drag Reduction for a Subsonic Missile Projectile at Different Flow Velocity Conditions	Dr G.Ramanan	Aeronautical	International Journal of Vehicle Structures & Systems	2021	0975-3060	<a href="https://maftree.org/eja/index.php/ijvss">https://maftree.org/eja/index.php/ijvss</a>	<a href="https://maftree.org/eja/index.php/ijvss/article/view/1545">https://maftree.org/eja/index.php/ijvss/article/view/1545</a>	SCOPUS
Aerodynamic Performance Analysis of a Variable Sweep Wing for Commercial Aircraft Applications	Radhakrishnan P, Dr.G.Ramanan	Aeronautical	ACS Journal for Science and Engineering	2021	NIL	<a href="http://www.acsje.in/index.php/acsje">http://www.acsje.in/index.php/acsje</a>	<a href="http://www.acsje.in/index.php/acsje/article/view/5">http://www.acsje.in/index.php/acsje/article/view/5</a>	Google Scholar
Optimization of responses in electron beam welding of inconel-718 alloy using genetic algorithm approach	Dr G.Ramanan	Aeronautical	International Journal of Advanced Technology and Engineering Exploration	2021	1501-1513	<a href="https://accentsjournals.org/journals1.php?journalId=110">https://accentsjournals.org/journals1.php?journalId=110</a>	<a href="https://accentsjournals.org/paperInfo.php?journalId=1363&amp;countPaper=657">https://accentsjournals.org/paperInfo.php?journalId=1363&amp;countPaper=657</a>	SCOPUS
<b>2022</b>								
Forward Flight Performance Analysis of Supercritical Airfoil in Helicopter Main Rotor	Inamul Hasan	Aeronautical	Intelligent Automation and Soft Computing	2022	1079-8587	<a href="https://www.techscience.com/journal/iasc">https://www.techscience.com/journal/iasc</a>	<a href="https://file.techscience.com/ueditor/files/iasc/TSP-IASC-33-1/TSP-IASC-23252/TSP-IASC-23252.pdf">https://file.techscience.com/ueditor/files/iasc/TSP-IASC-33-1/TSP-IASC-23252/TSP-IASC-23252.pdf</a>	SCOPUS
Aerodynamic Performance analysis of supercritical airfoil in helicopter main rotor blades	Inamul Hasan	Aeronautical	Transactions of the Canadian Society for Mechanical Engineering	2022	2816-5691	<a href="https://cdnsiencepub.com/journal/tcsme">https://cdnsiencepub.com/journal/tcsme</a>	<a href="https://cdnsiencepub.com/doi/10.1139/tcsme-2021-0067">https://cdnsiencepub.com/doi/10.1139/tcsme-2021-0067</a>	SCI
Static structural analysis and testing of aircraft wing spar using composite material	Dr G.Ramanan	Aeronautical	Materials Today	2022	22147853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>	<a href="https://www.sciencedirect.com/science/article/pii/S2214785322029339">https://www.sciencedirect.com/science/article/pii/S2214785322029339</a>	SCOPUS
CMAC Trained Optimum Mid-course Guidance for Tactical Flight Vehicle	Dr A K Sarkar	Aeronautical	Defence Science Journal	2022	22147853	<a href="https://publications.drdo.gov.in/ojs/index.php/dsi/about">https://publications.drdo.gov.in/ojs/index.php/dsi/about</a>	<a href="https://publications.drdo.gov.in/ojs/index.php/dsi/article/view/16295">https://publications.drdo.gov.in/ojs/index.php/dsi/article/view/16295</a>	SCI
Computational study of aerodynamic Performance of three and four-bladed Helicopter rotor with supercritical airfoil	Inamul Hasan	Aeronautical	Journal of Environmental Protection and Ecology	2022	1311-5065	<a href="https://www.interaction-design.org/literature/journal-of-environmental-protection-and-ecology">https://www.interaction-design.org/literature/journal-of-environmental-protection-and-ecology</a>	<a href="https://www.researchgate.net/publication/357622093_COMPUTATIONAL_STUDY_OF_AERODYNAMIC_PERFORMANCE_OF_THREE_AND_FOUR-BLADED_HELICOPTER_ROTOR_WITH_SUPERCRITICAL_AIRFOIL">https://www.researchgate.net/publication/357622093_COMPUTATIONAL_STUDY_OF_AERODYNAMIC_PERFORMANCE_OF_THREE_AND_FOUR-BLADED_HELICOPTER_ROTOR_WITH_SUPERCRITICAL_AIRFOIL</a>	SCOPUS
A Global Optimization Algorithm for Intelligent Electromechanical Control System with Improved Filling Function	Inamul Hasan	Aeronautical	Scientific Programming	2022	1875-919X	<a href="https://www.hindawi.com/journals/sp/">https://www.hindawi.com/journals/sp/</a>	<a href="https://www.hindawi.com/journals/sp/2022/3361027/">https://www.hindawi.com/journals/sp/2022/3361027/</a>	SCOPUS