

FACULTY PROFILE



Name Dr. Tide P. S.

Designation Professor in Mechanical Engineering

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School of Engineering
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Education qualifications:

Sl. No.	Degree	University	Specialization	Class
1.	Ph.D	I.I.T Madras	Mechanical Engineering	-
2.	M.Tech	I.I.T Kharagpur	-	-
3.	B.Tech (Mechanical)	Government Engineering College, Trichur, Kerala	-	I Class (Honours)

Teaching experience : 32 Years

Research Experience : 18 Years

Areas of interest : Compressible Fluid Flows, Computational Fluid Dynamics,
Experimental Fluid Dynamics, Supersonic & Under expanded flows

Subjects handled : Compressible Fluid Flows, Gas Dynamics, Propulsion Engineering,
Mechanics of Machinery, Dynamics of Machinery, Vibration and
Noise Control, Thermodynamics and Propulsion, Engineering
Mechanics

Promotions:

1st promotion (Date & designation): 17/02/1997 (Senior Lecturer) (DTE Order & U.O)

2nd Promotion (Date & designation): 21/09/2002 (Reader) (U.O)

3rd Promotion (Date & designation): 21/09/2010 (Professor) (U.O)

Post Doctoral Fellowship Mentored: 1 (U.O. No. CUSAT/AC(B).B3/2280/2021 dated 08/07/2021)

Sl. No.	Name of student	Project Title	Status
1	Arjun K S	Endwall convective heat transfer for bluff body in nanofluid flow through a channel under magnetic flux at high Reynolds numbers	12-7-2021 to Till date

Ph.D Guided: 7 Completed

Sl. No.	Name of student	Title of thesis	Status
1	Sandhya M	Investigations on Flow Characteristics of Jets emanating from Round and Rectangular Nozzles with and without Bevel	Completed
2	Mubarak A K	Investigation on Shock Cell Parameters in Jets emanating from Conical, Bell and Double Parabolic Nozzles	Completed
3	Sunil A S	An Investigation on Flow Oscillations due to Shear Layer Instability and Vortex Dynamics	Completed
4	Salaji S	Analysis, Modification, and Evaluation of Chaulmoogra Oil (Hydnocarpus Wightianus) as a Base Oil for Industrial Lubricants	Completed
5	Bindu M D	Experimental and Numerical Investigations on Friction Stir Welding of AA 7068-T6 Aluminium Alloy	Completed
6	Roy V Paul	Experimental and Numerical Investigations on Jet Dynamics of Flow Emanating from Corrugated Lobed Nozzles	Completed
7	Sabu Kurian	Experimental and Numerical Investigations on Heat Transfer Enhancement using Flow Deflectors in a Jet Array Impingement System with Cross-Flow	Completed
8	Rama Chandra Rao Adduru	Experimental Investigations, Modelling and Optimization of Reactive Precipitation for Recovering Ammonium Perchlorate from Reject Brine	Thesis submitted
9.	Arun G Nair	Numerical Investigations on Performance Enhancement of SCRAMJET Combustor using Modified Strut based Flameholder	Pre-synopsis completed

Sponsored Projects

RUSA 2.0 – Major Projects - *Co-Principal Investigator*

Project Number: T4L

Total amount: 76 Lakhs

Project Title: *Material Characterisation and Defect Sizing by Tone Burst Eddy Current Thermography*

Number of Publications:

International Journals : 50
 International Conferences : 35
 International Seminar & National Conferences : 08

Memberships in Professional bodies:Life Member **ISTE** LM-14114, **ISSE** LM-00663, **IEI**: F-120477-3, **ISHMT**: 1540**Expert Committee Membership:**

Sl. No.	Name of Committee	Name of Institute	Role of Faculty Member	Duration
1	Board of Studies in Mechanical Engineering & Marine Engineering	CUSAT, Cochin	Chairman	2015-2019
2	Board of Studies in Ship Technology	CUSAT, Cochin	Member	2015-2019
3	Board of Studies in UG Studies	MG University, Kottayam	Member	2015-2017
4	Academic Council	CUSAT, Cochin	Member	2015-2019
5	Board of Studies in Defence Science and Technology	CUSAT, Cochin	Member	2021-Till date
6	Board of Studies in Mechanical & Marine Engineering	CUSAT, Cochin	Member	2023-Till date

Details of Publications:**(i) International Journals**

Year	Type of publications	Papers published
2009	International Journal	Tide, P. S. , Babu, V., “Improved Noise Predictions from Subsonic Jets at Mach 0.75 Using URANS Calculations”, <i>Progress in Computational Fluid Dynamics, Inderscience</i> , 9 (8) (2009) 460-474.
2009	International Journal	Tide, P. S. , Babu, V., “Numerical Predictions of Noise Due to Subsonic Jets from Nozzles with and without Chevrons”, <i>Applied Acoustics, Elsevier</i> , 70 (2) (2009) 321-332.
2009	International Journal	Tide, P. S. , Srinivasan, K., “Novel Chevron Concepts for Jet Noise Reduction”, Proc. I.Mech.E. Part G, <i>Journal of Aerospace Engineering, SAGE Publishing</i> , 223 (1) (2009) 51-67.
2010	International Journal	Tide, P. S. , Babu, V., “Numerical Investigation of the Effect of Chevrons in Subsonic Jets using URANS”, <i>Progress in Computational Fluid Dynamics, Inderscience</i> , 10 (2) (2010) 65-79.
2010	International Journal	Tide, P. S. , Srinivasan, K., “Effect of Chevron Count and Penetration on the Acoustic Characteristics of Chevron Nozzles”, <i>Applied Acoustics, Elsevier</i> , 71 (3) (2010) 201-220.
2011	International Journal	Rajendran C., Madhu G., Tide P.S. , Kanthavel K., “Aerodynamic Performance Analysis of Horizontal Axis Wind Turbine Using CFD Technique”, <i>European Journal of Scientific Research</i> , 65 (1) (2011), 28-37.
2012	International Journal	Shajikumar K.R., Tide P.S. , “An Investigation on Tube Temperature Distribution in a Water Tube Boiler”, <i>IOSR Journal of Mechanical and Civil Engineering</i> , 2 (3) (2012), 45-50.
2014	International Journal	Mubarak A.K., Naveen S. Das, Tide P. S. , “Assessment of

		Performance of Turbulence Models in the Numerical Simulation of Mach 1.4 Free Jet from a Convergent Divergent Nozzle”, <i>European Journal of Scientific Research</i> , 123(3) (2014), 316-328.
2014	International Journal	Bhasi A. B., Bindu M. D., Tide P. S. , “Jet Dynamics of Co-axial Dual compressible Jets for Different Exit Velocity Ratios”, <i>International Review of Mechanical Engineering</i> , 8(5) (2014) 908-915.
2015	International Journal	Vipin R, Sabu Kurian, Tide P S. , “Study on pulsed impingement cooling”, <i>International Journal of Science, Engineering and Technology Research</i> , 4(10) (2015) 3635-3639.
2015	International Journal	Tigy V, Sabu Kurian, Tide P S. , “Numerical Investigation on Jet Impingement Cooling Aided with Synthetic Jet on Target Plate”, <i>International Journal of Science, Engineering and Technology Research</i> , 4(10) (2015) 3629-3634.
2015	International Journal	Mahesh T A., Sabu Kurian, Tide P S. , “Numerical Investigation on Jet Impingement Cooling Aided with Cross Flow and Ribs on Target Plate”, <i>International Journal of Science, Engineering and Technology Research</i> , 4(10) (2015) 3644-3652.
2017	International Journal	Sandhya M, Tide P. S. , “Computational Analysis of Subsonic Jets from Round and Beveled Nozzles”, <i>International Journal of Energy Technology and Policy</i> , Inderscience , 13(1) (2017) 141-157.
2017	International Journal	Sabu Kurian, Gokulnath R, Biju N, Tide P S. , “Numerical Optimization of heat transfer using combined steady and pulsating jet array”, <i>GRD Journal for Engineering</i> , 6(2) (2017) 91-96.
2017	International Journal	Sabu Kurian, Jassim K, Biju N, Tide P S. , “Numerical optimisation of heat transfer using pulsating jet array with phase shift” <i>GRD Journal for Engineering</i> , 6(2) (2017) 171-176.
2018	International Journal	Sandhya M, Tide P. S. , “Computational Analysis of Subsonic Jets from Rectangular Nozzles with and without Bevel”, <i>Journal of Spacecraft and Rockets</i> , (<i>AIAA</i>) 55(3) (2018) 749-763.
2018	International Journal	Mubarak A K., Tide P. S. , “Design of a Double Parabolic Supersonic Nozzle and Performance Evaluation by Experimental and Numerical Methods”, <i>Aircraft Engineering and Aerospace Technology</i> , Emerald Insight , 91(1) (2018) 145-156.
2018	International Journal	Mubarak A K., Tide P. S. , “Experimental and Computational Exploration of Underexpanded Jets from Conical, Bell and Double Parabolic Nozzles”, <i>International Review of Mechanical Engineering</i> 12(1) (2018) 33-41.
2018	International Journal	Sunil A. S., Tide P. S. , “An Investigation on Suppression of Vortex Instabilities for a Flow past a Bluff bBody using a Passive Device”, <i>International Review of Mechanical Engineering</i> , 11(2) (2018) 132-137.
2018	International Journal	Don P Jose, Tide P. S. , “Numerical analysis of aerodynamic characteristics of hang glider”, <i>Journal of Applied Engineering Research</i> , 13(3) (2018) 93-98.
2018	International Journal	Hredesh T, Tide P. S. , “Numerical study on the effect of leading edge shapes on the flow characteristics over delta wings”, <i>Journal of Applied Engineering Research</i> , 13(3) (2018) 51-55.
2018	International Journal	Kriparaj, Roy V Paul, Tide P. S. , “Numerical study on the flow characteristics of jet emanating from four lobed corrugated nozzles

		with varying lobe lengths”, <i>Journal of Applied Engineering Research</i> , 13(3) (2018) 36-39.
2018	International Journal	Radhika R, Joshy P J, Tide P. S. , “Study of flow developments around an airfoil with a range of backward steps”, <i>Journal of Applied Engineering Research</i> , 13(3) (2018) 99-103.
2019	International Journal	Praphul T, Joshy P J, Tide P. S. , “Numerical Analysis of Plume Structures of Fluids on a Horizontal Heated Plate”, <i>Journal of Heat Transfer (ASME)</i> , 141(4) (2019) 042502.
2019	International Journal	Sunil A S, Tide P S , “An Investigation on the suppression of vortex induced vibration of a cylinder using compound method with oscillating splitter plate”, <i>International Journal of Advanced Research in Dynamical and Control Systems</i> , 11(7) (2019) 562-569.
2019	International Journal	Sunil A S, Tide P S , “Numerical Investigations on suppression of Aeolian vibrations on a tall chimney using helical strakes”, <i>International Journal of Engineering Applications</i> , 7(5) (2019) 152-159.
2019	International Journal	Sunil A S, Tide P S , “An investigation on reduction of vortex induced loads on marine risers”, <i>International Journal of Emerging Technologies and Innovative Research</i> , 10(5) (2019) 25-33.
2020	International Journal	Roy V Paul, Kriparaj K G, Tide P S. , “Numerical predictions of the flow characteristics of subsonic jet emanating from corrugated lobed nozzle”, <i>Aircraft Engineering and Aerospace Technology, Emerald Insight</i> , 92(7) (2020) 955-972.
2020	International Journal	Roy V Paul, Kriparaj K. G., Tide P. S. and Biju N. “Design and Installation of Supersonic Free Jet Test Facility with Flow Visualisation”. <i>International Journal on Engineering Applications</i> , Vol. 8 (2020) 233-240.
2020	International Journal	Bindu M D, Tide P S , Bhasi A B, “Influence of tool rotational speed on microstructure, mechanical properties and corrosion behaviour of friction stir welded AA 7068-T6 Aluminium alloy”, <i>International Journal of Mechanical and Production Engineering Research and Development</i> , ISSN(P):2249-6890; ISSN(E):2249-8001 – 2020.
2020	International Journal	Sabu Kurian, Gikku Tom, Tide P S , Biju N, (2020) Experimental and Numerical Analysis of Heat Transfer Characteristics of an Impinging Round Jet with Vortex Generators, <i>Solid State Technology</i> , 63(6) 2020.
2020	International Journal	Bindu M. D., Tide P. S. , Bhasi A. B., Abdul Samad P. A. (2020) “Numerical and Experimental Studies on Friction Stir Welding of AA 7068-T6 for different welding speeds”, <i>International Review of Mechanical Engineering</i> , Vol.14, No.10 pp. 615-625.
2021	International Journal	Bindu M. D, Tide P. S , Bhasi A. B, Ramachandran K. K, “Modelling and parametric optimization of friction stir welding of Aluminium Alloy AA7068-T6 using response surface methodology and desirability function analysis” <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 69(4) (2021) 1-9. (SCI)
2021	International Journal	Sabu Kurian, Tide P. S. , Biju N., “Experimental and Numerical Investigations on Baffle Assisted Jet Array Impingement Cooling with Cross-flow”, <i>International Journal of Energy Technology and</i>

		Policy, Inderscience , 17(4) (2021) 398-420.
2021	International Journal	Sabu Kurian, Tide P. S , Biju N (2021) Effect of Baffle Configuration on Heat Transfer and Pressure Drop Characteristics of Jet Impingement System with Cross-Flow, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences 86(2) 15-27.
2021	International Journal	Sabu Kurian, Abhijith A, Tide P. S , Biju N (2021) Numerical optimization of pulse frequency and heat transfer for a subsonic impinging jet array. Materials Today. https://doi.org/10.1016/j.matpr.2021.05.250 .
2021	International Journal	Bindu M. D., Tide P. S. , Bhasi A. B., “Numerical Studies on Temperature and Material Flow during Friction stir Welding using Different Tool Pin Profiles”, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 83 (1), pp. 91-104.
2022	International Journal	Sabu Kurian, Jijo J, Tide P S , Biju N, Artificial Neural Network - Genetic Algorithm Based Optimization of Baffle Assisted Jet Array Impingement Cooling with Cross-Flow, Journal of Applied Fluid Mechanics, Isfahan University of Technology, Vol. 15(2), 441-451, 2022.
2022	International Journal	Kriparaj K G, Roy V Paul, Tide P S , Biju N, An experimental study on shock cell structures of under-expanded jets from corrugated lobed nozzles using schlieren imaging technique, Journal of Flow Visualization and Image Processing, Begell House, Vol. 29(4), 23-41, 2022.
2022	International Journal	Arun G Nair, Tide P S , Bhasi A B, Numerical Investigation on flow across strut-based flame holder with converging grooves, Journal of Flow Visualization and Image Processing, Begell House, Vol. 28(3), 97-125, 2022.
2022	International Journal	Arjun, K. S., Rakesh, K., & Tide, P. S (2022). Passive Downward Heat Transfer in Reverse Thermosyphon Enabled Bubble Pump with Two Working Media for U-Tube Solar Thermal Collector. Trends in Sciences, 19(20), DOI: 10.48048/tis.2022.6234
2022	International Journal	Kriparaj, K. G., Roy V Paul, Tide, P. S , Biju N (2022) "Schlieren imaging investigation on azimuthally varying shock net from four-lobed corrugated nozzle", Aircraft Engineering and Aerospace Technology, 94(7), 1058-1067.
2022	International Journal	Emlin V, Joshy P J, Tide P S , (2022) Numerical Analysis of Pool Boiling of Nano Fluids for High Heat Dissipation Applications, IEEE Transactions on Components, Packaging and Manufacturing Technology , IEEE Xplore Vol. 8(12) 1293-1301.
2022	International Journal	Arjun P, Joshy P J, Tide P S , Numerical Analysis on Air Core Vortex Formation in Inclined Cylindrical Tanks, Fluid Dynamics, Pleiades Publishing – Springer 2022.
2023	International Journal	Arjun, K. S., Rakesh, K., Tide, P. S. , & Biju N. (2023). Modeling of the Thermal Behaviour of Reverse Thermosyphon, utilizing Solar Energy and different working fluids. Songklanakarin Journal of Science and Technology, 45(2), 256-263.
2023	International Journal	Arjun, K. S., Tide, P. S. , & Biju N. (2023). Optimum profiles of endwall contouring for enhanced net heat flux reduction and aerodynamic performance. Journal of Harbin Institute of Technology (New Series), 2023, 1-13. DOI: 10.11916/j.issn.1005-

		9113.2023037
2023	International Journal	Arjun, K. S., Tide, P. S. , Biju N. (2023). “Turbine Passage Secondary Flow Dynamics and Endwall Heat Transfer Under Different Inflow Turbulence”, Journal of Harbin Institute of Technology (New Series), Article in Press.
2023	International Journal	Ramachandra Rao A, Tide P S , Benny K. George, Jojo Mathew (2023) Quasi-dynamic model for dissolution coupled with reaction and precipitation of sodium bicarbonate in fed-batch reactive crystallization, Chemical Engineering Journal Advances, Elsevier, 15 (2023) 100504
2023	International Journal	Ramachandra Rao A, Tide P S , Benny K. George, Ajith Prasad A R, Jojo Mathew (2023) Optimisation of reactive precipitation for processing reject brine in ammonium perchlorate manufacture, International Journal of Industrial and Systems Engineering, Inderscience Publishers, (Article in Press)
2023	International Journal	Arun G Nair, Tide P S , Bhasi A B., (2023) Numerical investigation of the effect of strut geometries on the flow characteristics in a model combustor, Aircraft Engineering and Aerospace Technology, DOI 10.1108/AEAT-03-2023-0074.

(ii) **International Conferences**

Year	Type of publications	Papers published
2008	International Conference	Tide P.S , Babu V., “A Comparison of Prediction by SST and Wilcox K- ω Models for a Mach 0.9 Jet”, 46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, USA, <i>AIAA-2008-0024</i> .
2008	International Conference	Tide, P. S. , Srinivasan, K., “Far-field Acoustic Investigation on Six Lobed Chevron Nozzles”, International Conference on Aerospace Science and Technology, Bangalore, <i>INCAST-2008-015</i> .
2009	International Conference	Tide P.S , Babu V., “Aerodynamic and Acoustic predictions from Chevron nozzles Using URANS Simulation”, 47th AIAA Aerospace Sciences Meeting, Orlando, Florida, USA, <i>AIAA-2009-0014</i> .
2009	International Conference	Tide, P. S. , Srinivasan, K., “Experimental Investigation on the Effect of Chevron Penetration on 4 Lobed Chevron Nozzles”, 47th AIAA Aerospace Sciences Meeting, Orlando, Florida, USA, <i>AIAA-2009-0852</i> .
2009	International Conference	Tide, P. S. , Srinivasan, K., “Aeroacoustic studies on beveled and Asymmetric-chevron nozzles”, 30th AIAA Aeroacoustic Conference, Miami, Florida, USA, <i>AIAA-2009-3404</i> .
2011	International Conference	Bindu M.D., Rekha L., Tide P.S. , Functionally graded materials for thermal barrier coatings – A review (International conference on materials for the future, ICMF, 2011.
2011	International Conference	Sandhya M., Mubarak A.K., Tide P.S. , Performance of refractory metal composite as nozzle throat material and recent trends in fabrication, ICMF, 2011.
2011	International Conference	Mubarak A.K., Sandhya M., Tide P.S. , Review on the application of ablative materials for solid rocket motor nozzle and their fabrication, ICMF, Government Engineering College,

		Thrissur, 2011.
2011	International Conference	Rekha L, Bindu M D, Tide P S. , Sustainable Constructions, Green Buildings, Design and Delivery, ICMF 2011, Government Engineering College, Thrissur.
2013	International Conference	Mubarak A.K., Tide P.S. , Review on the drag reduction technologies in aircraft (Proceedings of the International Conference for the Future, ICMF, Government Engineering College, Thrissur, 2013.
2014	International Conference	Anand Raj Hariharan, Tide P S , Bhasi A B., “Numerical Investigation of Injector Geometries on Jet in Crossflow at High Speed”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 409-414.
2014	International Conference	Bindu M. D., Karun V Gopal, Tide P. S. , “Prediction of Turbulence Characteristics of Coaxial Dual Nozzle Flows”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 415-421.
2014	International Conference	Sandhya M, Tide P S , “Numerical Investigation of Flow Characteristics of Subsonic Jets from Round & Beveled Nozzles”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 423-429.
2014	International Conference	Sunil A. S., Tide P. S. , “An Investigation on Fluid Flow Oscillations for Flow Past a Square Cylinder at Various Reynolds Numbers”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 443-450.
2014	International Conference	Aswith R.Shenoy, J. C. Pisharady, Khalid Rashid, Tide P.S. , “Numerical Investigation on the Effect of Secondary Gas Injection in Dual Bell Nozzle Flow Transition”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 459-469.
2014	International Conference	Mubarak A. K, Jaison K. A, Tide P. S. , “Estimation of Performance of Turbulence Models in Imperfectly Expanded Jets from a Convergent Divergent Nozzle”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 471-476.
2014	International Conference	A. B. Bhasi, Tide P. S. , P. V. Shouri, “Adaptation Measures to Environmental Regulatory Compliance in Small and Medium Enterprises - A Study to Combat Operational Issues”, International Conference on Energy, Environment, Materials and Safety, ICEEMS’ 14 (2014), 371-378.
2015	International Conference	Aswith R Shenoy, Tide P. S. , Numerical analysis of geometric effects on alternate wedge strut induced mixing in a Scramjet combustor, International Conference on Emerging Trends in Mechanical Engineering, (ICETiME), 2015, 53-66.
2015	International Conference	Sabu Kurian, Vipin R, Tide P. S. , Biju N, Numerical investigation on pulsating jet impingement cooling, International Conference on Emerging Trends in Mechanical Engineering, (ICETiME), 2015, 77-86.
2015	International Conference	Amaldev N, Mathew George, Khalid Rashid, J C Pisharady, Tide P. S. , Numerical study of linear aerospike nozzle and experimental validation of spike pressure distribution, International Conference on Emerging Trends in Mechanical Engineering, (ICETiME), 2015, 87-100.

2015	International Conference	Roy V Paul, Joseph K J, Tide P S , Biju N, Design and development of free jet test facility with anechoic chamber for subsonic and supersonic flows, International Conference on Emerging Trends in Mechanical Engineering, (ICETiME), 2015, 181-188.
2015	International Conference	Salaji S, Jayadas N H., Tide P S. , Evaluation of marototy oil as a base stock for industrial lubricants, International Conference on Emerging Trends in Mechanical Engineering, (ICETiME), 2015, 245-250.
2016	International Conference	Aswith R Shenoy, Abuthahir K A, Tide P S. , LES of alternate wedge strut induced mixing in a Scramjet combustor, 6 th International Conference on Fluid Mechanics and Fluid Power, Allahabad, 2016.
2019	International Conference	Mechanical Characterization and microstructure studies of friction stir welded AA 7068-T6 alloy, Bindu, M. D, Tide, P. S , Bhasi A B, ICEEMS 2019, CUSAT.
2019	International Conference	Aiswarya Unny, Joshy P J, Tide P S , Aerodynamic analysis of the wing of unmanned aerial vehicle with and without morphing, ICEEMS'19, CUSAT Cochin, April 2019.
2020	International Conference	Nithin Krishnan S, Tide P S , Joshy P J, Supersonic flow past straight, concave and convex wedge surfaces, International Conference STAGE' 20, NSSCE, Palakkad, July 2020.
2021	International Conference	Sabu Kurian, Tide P S , Biju N, Heat Transfer Effect of Louvered Baffle in Jet Impingement Heat Transfer with Cross-flow, IOP Conf. Series: Materials Science and Engineering, ICIMS 2021, Vol. 1132, February 2021.
2021	International Conference	Saurav Sivadas, Joshy P J, Tide P S , A numerical study on the effect of Reynolds number on aerodynamics of insect wings, International Conference on Aerospace Engineering and Mechanical Engineering, ICAME'21, TKM College of Engineering, Kollam, December 2021.
2021	International Conference	Neethu Elsa John, Joshy P J, Tide P S , An investigation on vortex ring patterns by falling droplets on free surface of a liquid, International Conference on Aerospace Engineering and Mechanical Engineering, ICAME'21, TKM College of Engineering, Kollam, December 2021.
2022	International Conference	Akram P A, Beena Mary John, Teresa Siby Madathil, Shija C, Prakasan Abhirami, Mathiazhagan A, Tide P S , Ebenezer D D, Numerical Model of a Multi-layer Shock and Vibration Isolator, OCEANS 2022, February 2022, Chennai, pp. 1-6.
2022	International Conference	An investigation on air-core vortex formation in hemispherical tanks, Heera Susan John, Rohith N R, Joshy P J, Tide P S , International Conference on Sustainable Technology and Innovation for Industry, ICSTII 2022, CUSAT, April 2022.
2022	International Conference	Niju Mohammed, Shebin A, Mohammed Haseeb E, Tide P S , Franklin R John, Ranjith S Kumar, Sreejakumari S S, Effect of Direct Current Electrowetting-on-Dielectric on Droplet Impingement Dynamics, 9 th International Conference on Fluid Mechanics and Fluid Power, Dec. 2022, IIT Roorkee.
2022	International Conference	Niju Mohammed, Tide P S , Franklin R John, Praveen A, Ranjith S Kumar, Investigation of the Droplet Impingement on

		a Hydrophobic Surface with a Fixed Particle, 9 th International Conference on Fluid Mechanics and Fluid Power, Dec. 2022, IIT Roorkee.
2023	International Conference	Praveen A, Abhinanth J, Gireeshkumaran Thampi B S, Tide P.S , Niju Mohammed K and Ranjith S Kumar, Experimental Investigation on Self-propulsion of Leidenfrost Droplets on Narrow Ratchet Surfaces, 9 th Asian Joint Workshop on Thermophysics and Fluid Science, Nov. 2022, Utsunomiya, Japan.
2023	International Conference	Arun G Nair, Tide P S , Bhasi A B, Numerical investigation of flow inside a cavity-based combustor with shock generator, International Conference on Science Engineering & Technology, ICSET-23, Trivandrum. (Accepted)

(iii) International Seminars and National Conferences

Year	Type of publications	Papers published
1999	International Seminar	Tide P. S. , and Joshy P. J., An Investigation of Pollution Dispersion from a Stack, International Seminar on Safety and Fire, 1999.
1999	International Seminar	Bhasi A. B., and Tide P. S. , Hazard Identification and Documentation for efficient health and Safety Programmes (International Seminar on Safety and Fire, 1999.
1999	International Seminar	Tide P. S. , and Vinodkumar M. N., An Investigation on Flight Safety, International Seminar on Safety and Fire, 1999.
2004	National Congress	Tide P. S. , Bhasi A. B., Joshy P. J., Increasing the efficiency of coal fired boilers, International Congress on Boiler Engineering and Technology, 2004.
2014	National Conference	Jyothi Sankar P. R., Suresh P. R., Tide P. S. , CFD Studies on the influence of jet geometry at low Reynolds number, National Conference on Latest Trends in Mechanical Engineering, NCLTME-2014.
2015	National Conference	Basil George, Suresh C B., M R R Panicker, Tide P. S. , Experimental analysis of stem blockage effect in a conical type flow meter, National Conference on Advances in Mechanical Engineering, 2015.
2015	National Conference	Vipin Krishna V, Suresh C B., M R R Panicker, Tide P. S. , Experimental analysis of Multiport Averaging Device and Effect of body shape on flow coefficient, National Conference on Advances in Mechanical Engineering, 2015.
2015	National Conference	Mubarak A.K., Naveen M. P., Tide P. S. , Dheeraj R., Performance Analysis of turbulence models of supersonic jets through a convergent divergent nozzle, National Conference on Innovative Engineering, 2015.

Tide P. S.