

ABHILASH SURYAN PhD

Assistant Professor,
Dept. of Mechanical Engineering,
College of Engineering Trivandrum

E-mail: suryan@cet.ac.in

Web: <http://asuryan.in>

Web of Science ResearcherID: I-5624-2015

ORCID 0000-0002-3669-4361

Scopus Author ID: 36487403100



Education

PhD 2012 Andong National University, South Korea

M. Tech. 1997 College of Engineering Trivandrum, University of Kerala

B. Tech. 1995 College of Engineering Trivandrum, University of Kerala

IUCEE Certified International Engineering Educator, May, 2016

Ing.Paed.IGIP title from International Society for Engineering Pedagogy, January, 2018

Experience:

Organization / Firm	Designation	Period		Nature of work
		From	To	
College of Engineering Trivandrum	Asst. Professor in Mechanical Engg.	01/02/2014	To date	Teaching/Research
Govt. Engineering College Idukki, Painavu, Idukki	Asst. Professor in Mechanical Engg.	01/06/2012	31/01/2014	Teaching/Research
Andong National University-Daejoo Machinery Collaborative Research Centre	Research Engineer	01/06/2008	31/03/2012	Research, Design & Development/Teaching
Govt. Engineering College, Barton Hill, Trivandrum	Lecturer in Mechanical Engg.	20/06/2002	29/05/2008	Teaching/Research
Hindustan Aeronautics Ltd., Bangalore	Design Engineer	29/11/2001	05/06/2002	Research, Design & Development of Aircraft Engine Test Beds
Jayamatha Engineering College, Kanyakumari	Lecturer in Mechanical Engg.	09/07/1998	19/11/2001	Teaching

Areas of Interest:

Engineering Education, Curriculum Reforms, Compressible and Incompressible Fluid Flow, Computational Fluid Dynamics, Alternative and Non-conventional Energy, Hydrogen Energy, Propulsion Engineering, Heat and Mass Transfer, Turbo Machinery, Sustainable Engineering

Expertise:

Experimental and Computational Gas Dynamics, CFD, ANSYS Fluent, Particle Image Velocimetry

Membership in Professional Bodies

1. Life Member, AIAA, American Institute of Aeronautics and Astronautics since 2017
2. Life Member of ISTE, Indian Society for Technical Education since 2001
3. Life Member of the Combustion Institute Indian Section (CIIS) since 2003
4. Life Member of the Aeronautical Society of India (AeSI)
5. Life Member, System Society of India
6. Life Member, Society for Small Satellite Systems (SSSS)
7. Life Member of the ASCI Association (Administrative Staff College of India)

Major International Recognitions

1. Associate Editor, [Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, International Journal, Taylor & Francis, USA. \(Indexed in SCI\)](#)
2. Member, Editorial Board, Topical Problems of Fluid Mechanics since 2017, Academy of Sciences, Prague, Czech Republic.
3. National Representative (India) and Member, International Scientific Committee, 8th Asian Joint Workshop on Thermophysics and Fluid Science, Daegu, Korea, October 21-24, 2020
4. [Organizing Secretary, National Representative \(India\) and Member, International Scientific Committee, 7th Asian Joint Workshop on Thermophysics and Fluid Science, Trivandrum, India, November 21-24, 2018](#)
5. Organizing Secretary, 9th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, Gyeongju, South Korea, 8-11, September, 2009
6. Member, International Scientific Committee, 14th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, Gdansk, Poland, July 8-11, 2019
7. Member, International Scientific Committee, 12th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHMT2019), Rome, Italy, Sept 03 – 06, 2019
8. Member, International Scientific Committee, 11th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHMT2018), Krakow, Poland, May 21 – 24, 2018
9. Member, International Scientific Committee, 10th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHMT2017), Seoul, South Korea, May 28 - June 1, 2017
10. National Representative, India and Member, International Organizing Committee, 6th Asian Joint Workshop on Thermophysics and Fluid Science, Guilin, China, September 20-23, 2016

National Level

1. Member, Technical & Organizing Committee, 6th National Symposium on Shock Waves-2020, 26-28 February, 2020, IIT Madras
2. Member, Local Organizing Committee, ASET2019: National Conference on Environmental Testing of Aerospace Systems Advances and Future Trends, October 11-12, 2019, Vikram Sarabhai Space Centre, Trivandrum
3. Member, Local Organizing Committee, ASET2018: National Conference on Future Directions in Propulsion, May 11-12, 2018, Liquid Propulsion System Centre, Valiyamala, Trivandrum
4. Member, National Advisory Committee, 1st International Conference on Applied Mechanics and Optimisation, ICAMeO-2019, Mar Baselios College of Engineering and Technology, Trivandrum, India, June 13-15, 2019
5. Member, National Advisory Committee, 11th International Exergy, Energy and Environment Symposium, SRM University, Chennai, India, July 14 - 18, 2019

State Level

1. [Organizing Secretary, Professional Students Summit 2020, Department of Higher Education, Government of Kerala](#)
2. [Organizing Secretary, Professional Students Summit 2019, Department of Higher Education, Government of Kerala](#)
3. Member, Working Group on Medium and Large Industries, 13th Five Year Plan, Kerala State Planning Board
4. Member, Working Group, Autism Parks in Schools Project, Department of Public Instructions, Government of Kerala
5. Subject Expert for Interview: Mechanical Engineering, Kerala Public Service Commission
6. Member of the Jury, Mastermind 2019, Malayala Manorama

Publications

Details of Publications in International Journals and Conferences

Books: 1 International Journals: 28, National Journals: 3, Book Chapters: 13

International Conferences: 78 National Conferences: 32

Books

1. **Abhilash Suryan**, Deog Hee Doh, Minoru Yaga and Guang Zhang, Recent Asian Research on Thermal and Fluid Sciences, **Springer, Singapore**, February, 2020, *Editor*.

Peer Reviewed Journal Papers: International

2020

1. Senthil Kumar Raman, Wu Kexin, Tae Ho Kim, **Abhilash Suryan** and Heuy Dong Kim, Effects of flap on the re-entry aerodynamics of a blunt cone in the supersonic flow, **International Journal of Mechanical Sciences**, Elsevier, 2020, Volume 176, 15 June 2020, 105396. (**Indexed in SCIE**)
2. Prasanth P. Nair, **Abhilash Suryan**, and Heuy Dong Kim, Computational study on reducing flow asymmetry in over-expanded planar nozzle by incorporating double divergence, **Aerospace Science and Technology**, Volume 100, May 2020. (**Indexed in SCI**). *Corresponding Author*.
3. Prasanth P. Nair, Amsha S, **Abhilash Suryan** and Sandro Nizetic, Investigation of flow characteristics in supersonic combustion ramjet combustor toward improvement of combustion efficiency, **International Journal of Energy Research**, Wiley, 2020, First published: 06 March 2020. (**Indexed in SCIE**). *Corresponding Author*.
4. John Paul P., Prasanth P. Nair, **Abhilash Suryan**, Joe Paul Martin M and Heuy Dong Kim, Numerical Simulation on Optimization of Pintle Base Shape in Planar Expansion-Deflection Nozzles, **Journal of Spacecraft and Rockets**, *Published Online: 29 Jan 2020*. (**Indexed in SCI**). *Corresponding Author*.
5. Md Khairul Bashar Shovon, Senthil Kumar Raman, **Abhilash Suryan**, Tae Ho Kim and Heuy Dong Kim, Performance of ejector refrigeration cycle based on solar energy working with various refrigerants, **Journal of Thermal Analysis and Calorimetry**, Springer, *Published Online: 23 January, 2020*. (**Indexed in SCI & SCIE**). *Corresponding Author*.
6. Reji RV, Tae Young Kim, Seok Woo Son, **Abhilash Suryan** and Heuy Dong Kim, Computational investigation on the flow characteristics in beam dyeing process, **The Journal of The Textile Institute**, Taylor & Francis, 2020, Volume 111, Issue 3, Pages 434-446, Published online: 19 Jul 2019. (**Indexed in SCIE**)
7. Manju G Nair and **Abhilash Suryan**, Trans-disciplinary Project Based Learning Models for Community Service, **Procedia Computer Science**, Elsevier, 172:735-740, January 2020. *Corresponding Author*
8. Nidhi M B and **Abhilash Suryan**, Disruptions in Engineering Education: Perceptions of Mid-Career Academicians, **Procedia Computer Science**, Elsevier, 172:797-802 · January 2020

2019

9. Reji RV, Seok Woo Son, **Abhilash Suryan** and Heuy Dong Kim, Study on reduction in pressure losses in pipe bends using guide vanes, **Journal of Visualization**, Springer Nature, 2019, August, Volume 22 Issue 4, Pages 795-807. (**Indexed in SCIE**). *Corresponding Author*.
10. Prasanth P Nair, **Abhilash Suryan** and Heuy Dong Kim, Computational study on flow through truncated conical plug nozzle with base bleed, **Propulsion and Power Research**, Elsevier, 2019, June, Volume 8 Issue 2, Pages 108-120. (**Indexed in SCIE**). *Corresponding Author*.
11. Abhay Mohan, Palanikumar C, **Abhilash Suryan** and Heuy Dong Kim, Energy efficiency analysis of wet compression systems through thermo-fluid dynamic considerations, **Journal of Cleaner Production**, Elsevier, 2019, Volume 214, 20 March 2019, Pages 132-144. (**Indexed in SCIE**). *Corresponding Author*

2018

12. Prasanth P Nair, **Abhilash Suryan** and Heuy Dong Kim, A study of conical aerospike nozzles with base-bleed and free-stream effects, **Journal of Spacecraft and Rockets**, 2018, AIAA. (**Indexed in SCI**). *Corresponding Author*

13. Siba Prasad Choudhury, **Abhilash Suryan**, J. C. Pisharady, A. Jayashree and Khalid Rashid, Parametric study of supersonic film cooling in dual bell nozzle for an experimental air–kerosene engine, **Aerospace Science and Technology**, Elsevier, 2018, Volume 78, Pages 364-376. **(Indexed in SCI)**. *Corresponding Author*

14. Sandeep Eldho James, **Abhilash Suryan**, Jiss J Sebastian, Abhay Mohan and Heuy Dong Kim, Comparative study of boundary layer control around an ordinary airfoil and a high lift airfoil with secondary blowing, **Computers and Fluids**, 2017, Elsevier, 2018, Volume 164, 15 March 2018, Pages 50-63. **(Indexed in SCI)**. *Corresponding Author*

2017

15. Prasanth P Nair, **Abhilash Suryan** and Heuy Dong Kim, Computational study of performance characteristics for truncated conical aerospike nozzles, **Journal of Thermal Science**, 2017, Springer, 26(6), pp 483-489. **(Indexed in SCIE)**. *Corresponding Author*

16. Merlin C. Das, Meribeni L. Jungio, N. Haritha, **Abhilash Suryan** and Heuy Dong Kim, Computational study on aerodynamic and thermal characteristics of a hot jet in parallel flow, **Open Journal of Fluid Dynamics**, 2017, SCIRP, Vol.7 No.3, pp 348-358. **(Open Access)**. *Corresponding Author*

17. Jaison Philip, **Abhilash Suryan**, T.V. Sanand, P. Unnikrishnan Nair and S. Sivakumar, Computational study on the influence of number of threads on the performance of single screw pump at high angular velocities, **Journal of Thermal Science**, 2017, Springer, 26(1), pp 54-59. **(Indexed in SCIE)**. *Corresponding Author*

2016

18. Abhay Mohan, Palani Kumar Chidambaram, **Abhilash Suryan** and Heuy Dong Kim, Thermo-fluid dynamic analysis of wet compression process, **Journal of Mechanical Science and Technology**, 2016, Springer, 30(12), pp 5473-5483. **(Indexed in SCIE)**

19. Jiss J. Sebastian, Sandeep Eldho James and **Abhilash Suryan**, Computational Study of Hypersonic Flow Past Spiked Blunt Body Using RANS and DSMC Method, **Procedia Technology**, 2016, Elsevier, Vol. 25, pp. 892–899. *Corresponding Author*

20. Jiss J. Sebastian, **Abhilash Suryan** and Heuy Dong Kim, Numerical analysis of hypersonic flow past blunt bodies with aerospikes, **Journal of Spacecraft and Rockets**, 2016, AIAA, the American Institute of Aeronautics and Astronautics, , Vol. 53, No. 4, pp. 669-677. **(Indexed in SCI)**. *Corresponding Author*

21. Anish K. John, **Abhilash Suryan**, M. Abdul Rahman, Kuncheria P. Isaac, Transforming Kerala - Role of University in Building Entrepreneurship, **Journal of Engineering Education Transformations**, 2016, IUCEE, 29(3), pp 118-123. *Corresponding Author*

2015

22. Binulal B R, Akash Rajan, **Abhilash Suryan**, Jayaraj Kochupillai and Heuy Dong Kim, Mass flow prediction of Coriolis meter using C^0 continuous beam elements, **Journal of Thermal Science**, 2015, Springer, 24(4), pp 398-403. **(Indexed in SCIE)**

2013

23. **Abhilash Suryan**, Toshiaki Setoguchi and Heuy Dong Kim, Comparative Study of Turbulence Models Performance for Refueling of Compressed Hydrogen Tanks, **International Journal of Hydrogen Energy**, 2013, Elsevier, 38(22), pp 9562–9569. **(Indexed in SCIE)**.

24. **Abhilash Suryan**, Toshiaki Setoguchi and Heuy Dong Kim, Numerical analysis on thermo-fluid dynamic behavior of hydrogen gas during fast high pressure filling, **Journal of Mechanical Science and Technology**, 2013, Springer, 27(2), pp 567-573. **(Indexed in SCIE)**.

2012

25. **Abhilash Suryan**, Heuy Dong Kim and Toshiaki Setoguchi, Three dimensional numerical computations on the fast filling of a hydrogen tank under different conditions, **International Journal of Hydrogen Energy**, 2012, Elsevier, 37(9), pp7600-7611. **(Indexed in SCIE)**.

2011

26. **Abhilash Suryan**, Yong Kwan Yoon, Dong Sun Kim, and Heuy Dong Kim, Experimental Investigations on Impaction Pin Nozzles for Inlet Fogging System, **Journal of Mechanical Science and Technology**, 2011, Springer, 25 (4), pp839-845. **(Indexed in SCIE)**.

2010

27. **Abhilash Suryan**, J. K. Lee, D. S. Kim and H. D. Kim, Numerical Simulation of Duct Flow with Fog Droplets, **Journal of Thermal Science**, 2010, Science Press, co-published with Springer-Verlag GmbH, 19 (6), pp 533-539. **(Indexed in SCIE)**.

28. **Abhilash Suryan**, Dong Sun Kim and Heuy Dong Kim, Experimental study on the inlet fogging system using two-fluid nozzles, **Journal of Thermal Science**, 2010, Science Press, co-published with Springer-Verlag GmbH, 19(2), pp132-135. **(Indexed in SCIE)**.

Recognized Reviewer (Selected Journals and Conferences)

1. Aerospace Science and Technology, International Journal (SCI), Elsevier.
2. Advances in Space Research, International Journal (SCI), Elsevier.
3. Journal of Spacecraft and Rockets, International Journal (SCI), AIAA
4. AIAA Journal
5. Computers and Fluids, International Journal (SCI), Elsevier.
6. International Journal of Hydrogen Energy (SCI), Elsevier.
7. International Journal of Heat and Mass Transfer (SCIE), Elsevier.
8. Journal of Cleaner Production, International Journal (SCIE), Elsevier.
9. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering (SCI), IMechE, Sage
10. Journal of Visualization, International Journal (SCIE), Springer.
11. Journal of Aerospace Engineering, ASCE
12. International Conference on Transformations in Engineering Education (ICTIEE) from 2017 to 20

Participation in International Conferences

1. 9th World Engineering Education Forum (WEEF2019), ITC Grand Chola, **Chennai, India**, 13-16 November, 2019
2. 24th Conference of the International Society for Air Breathing Engines (ISABE 2019), **Canberra, Australia**, 22-27 September, 2019
3. 11th International Exergy, Energy and Environment Symposium, SRM Institute of Science & Technology, **Chennai, India**, 14-18, July, 2019
4. 14th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, **Gdansk, Poland**, 08-11, July, 2019
5. 1st International Conference on Applied Mechanics and Optimisation, ICAMeO-2019, Mar Baselios College of Engineering and Technology, **Trivandrum, India**, June 13-15, 2019
6. 7th Asian Joint Workshop on Thermophysics and Fluid Science, **Trivandrum, India**, 21-24, November, 2018
7. 5th International Conference on Transformations in Engineering Education, Thiagarajar College of Engineering, **Madurai, India**, January 08-09, 2018,
8. 6th Asian Symposium on Computational Heat Transfer and Fluid Flow, IIT Madras, **Chennai, India**, 10-13, Dec., 2017
9. 10th International Conference on Computational Heat, Mass and Momentum Transfer, **Seoul, South Korea**, 28 May - 1 June, 2017
10. 9th International Exergy, Energy and Environment Symposium, University of Split, **Split, Croatia**, 14-17, May, 2017
11. 13th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, Okinawa Institute of Science and Technology, **Okinawa, Japan**, 07-11, May, 2017
12. 4th International Conference on Transformations in Engineering Education, Vardhaman College of Engineering, **Hyderabad, India**, January 06-09, 2017,
13. 6th Asian Joint Workshop on Thermophysics and Fluid Science, **Guilin, China**, 19-22, September, 2016

14. Topical Problems of Fluid Mechanics, Institute of Thermomechanics, Academy of Sciences, **Prague, Czech Republic**, 10-12, February, 2016
15. 3rd International Conference on Transformations in Engineering Education, College of Engineering Pune, **Pune, India**, January 08-12, 2016
16. 12th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, Villa Marigola, **Lerici, La Spezia, Italy**, 13-16, July, 2015
17. 7th International Exergy, Energy and Environment Symposium, Université de Valenciennes, **Valenciennes, France**, 27-30, April, 2015
18. 5th Asian Joint Workshop on Thermophysics and Fluid Science, **Nagasaki, Japan**, 23-26, September, 2014
19. 4th Asian Joint Workshop on Thermophysics and Fluid Science, **Busan, South Korea**, 14-17, October, 2012
20. 3rd International Conference of Fuel Cell and Hydrogen Technology, **Kuala Lumpur, Malaysia**, 22-23, November, 2011
21. International Symposium on Marine Engineering & Technology, BEXCO, **Busan, South Korea**, 25-28, October, 2011
22. ASME-JSME-KSME Joint Fluids Engineering Conference, **Hamamatsu, Japan**, 24-29, July, 2011
23. 10th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, Vrije Universiteit Brussel (VUB), **Brussels, Belgium**, 4-7, July, 2011
24. 13th Asian Congress of Fluid Mechanics, IUT, **Dhaka, Bangladesh**, 17-21, December, 2010
25. 3rd Asian Joint Workshop on Thermophysics and Fluid Science, **Matsue, Japan**, 10-13, September, 2010
26. 14th International Symposium on Flow Visualization, EXCO, **Daegu, South Korea**, 21-24, June 2010
27. 9th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows, **Gyeongju, South Korea**, 8-11, September, 2009
28. 12th Asian Congress of Fluid Mechanics, **Daejeon, South Korea**, 18-21, August, 2008

Participation in Funded Research Projects

Project Title	Funding Agency	Amount	Role	Year of Completion/ Status
Investigation of Flow characteristics of Altitude Adaptive Nozzles	Research Promotion Scheme-National Doctoral Fellowship, AICTE, Government of India	Rs. 25,00,000	Principal Investigator	April 2019~
Study of Fast Filling of Gas Storage Tanks	Centre for Engineering Research and Development, APJ Abdul Kalam Technological University	Rs. 2,00,000	Principal Investigator	19.03.2015~
Development of a Pharma-Ballistic Range	Ministry of Education, Science and Technology, Government of the Republic of Korea	KW 282,000,000	Research Scholar	01.05.2011~ 29.02.2012
Development of Inlet Fogging System for the Savings of Compressor Power Consumption	Ministry of Education, Science and Technology, Government of the Republic of Korea	KW 70,420,000	Research Scholar	01.05.2010~ 30.04.2011
A Fundamental Study on Liquid Jet Flows at Ultra-High Pressures	Ministry of Education, Science and Technology, Government of the Republic of Korea	KW 196,950,000	Research Scholar	01.09.2009~ 31.08.2011
Study on the Fluctuation of Side Force and its Control in a Propulsion Nozzle	Ministry of Education, Science and Technology, Government of the Republic of Korea	KW 24,000,000	Research Scholar	01.07.2009~ 30.06.2011

Short Term Training Programmes Coordinated

1. Creating International Visibility through High Quality Research Output, Sponsored by DTE, Government of Kerala, organized by the CET Centre for International Relations. From 20th to 25th January, 2020, 6days
2. Experimental Techniques in Fluid Dynamics, Sponsored by DTE, Government of Kerala, organized by the Department of Mechanical Engineering, CET. From 01/12/15 to 05/12/15, 5 days

Expert Talks

Title/Topic	Venue	Date
Preparations for the Engineers of the Future	Younus Institute of Technology, Kollam, Kerala	12 April, 2019
Engineers for the Age	PSN College of Engineering & Technology, Tirunelveli, TN	12 October, 2018
If I were a Mechanical Engineer...	College of Engineering Perumon, Kollam, Kerala	3 August, 2016
From Equations to Innovations through a Research Roadmap	Marian Engineering College, Trivandrum	28 March, 2015
An Eye on Research	Amal Jyothi College of Engineering, Kanjirapally, Kerala	5 April, 2013

Research and Project Guidance

Name of Student	Topic/Title	Year /Status
PhD		
Unnikrishnan G	Sloshing in Liquid Tanks	Ongoing
Sandeep Soman	Altitude Adaptive Nozzles	Ongoing
Sandeep E	Supersonic Flow	Ongoing
M. Tech.		
Jiss Jacob Sebastian	Numerical simulation of hypersonic flow over blunted nose cone with aerospike	2015
Sandeep Eldho James	Computational study of boundary layer control and stall delay in an airfoil with secondary blowing	2015
Akhil S	Comparative study of aerodynamic drag on different head nose configurations of high speed trains	2015
Siba Prasad Choudhary	Numerical Study on supersonic film cooling of a dual bell nozzle	2016
Jaison Philip	Flow analysis of the screw pump in a turbo pump of semi cryogenic engine	2016
Prasanth P Nair	Numerical simulation of flow through aerospike nozzle	2017
Johny George	Numerical study of flow through planar double divergent nozzles	2017
Amsha S	Computational analysis of flow and combustion in a Scramjet combustor	2017
Anisha Vijay	Numerical investigation of thruster based system discharging a weight through a fixed tube	2017
Kiran Kumar	Study of flow separation in truncated ideal contour nozzles under high altitude condition using CFD	2018
Haris T A	Study on the aerodynamic effects of nose length of high speed train entering a tunnel	2018
Benoy Jacob George	Investigation of aerodynamic effects of tunnel-hood on a high speed train	2018
Ajith D	Numerical study of the altitude compensation in planar expansion deflection nozzle	2018
Padman R Bijoy	Estimation of shear induced blood damage at artificial heart valve	2018
Kamal Krishnan	Experimental studies on the effect of cup length on the atomization characteristics of gas centered swirl coaxial injector	2018
S Vishnu Prasad	Asymmetric breakup of liquid sheets in gas assisted atomizers	2019
Vaisakh S Nair	Experimental and numerical investigation of cavitation in injector elements	2019
Martin Raju	Computational study of flow phenomenon in a film cooled LO2/LH2 dual bell nozzle	2019
Ravichandran S	Numerical fluid flow study of composite gas bottle during rapid venting	2019 (PTDC)
Vinod R Chandran	Studies on Reliable Initiation of Energetic Boosters	2019 (PTDC)
Akhil Sivasdas	Study of the Effect of an Impinging Shock on Supersonic Film Cooling in a Dual Bell Nozzle	2020
Ijas Muhammed V V	Numerical Study of Flow Separation In Truncated Ideal Contour Rocket Nozzles Under High Altitude Conditions	2020
B. Tech.		

Shyam V, H Hari Narayanan, Ashish Idicula Jacob, Hariprasad P, Kiran Dev P	Aerodynamic characterization of dimpled NACA0018 airfoil at low Reynolds number	2016
Albin Mathew, Arjun V, Manu Prasad A, Vishnu A V	Study of temperature profile of compressed gas filled in a chamber (Co Guide)	2017
Vidyasagar, Vivek Mohan M, Yadhu Gopal and Yadu Chandran	Study of cavity flow physics for flame holding and mixing capabilities	2017
Merlin C Das, Meribeni L Jungio and Haritha N	Computational study on aerodynamic and thermal characteristics of a hot jet in parallel flow	2017
Abhijith.S, Joyal Devasia, Kiran Karthikeyan, M.C.Nidhish	Analysis of aerodynamic performance of cambered airfoil using leading edge slot	2018
Ashwin S, Sachinlal AV	Computational study of unstart phenomenon in hypersonic inlets	2018
Chriswin Dsilva, Aman Rohilla	Design and Fabrication of Amphi Drone	2019

Details of Refresher Courses Attended					
Sl. No.	Name of Course	Conducted by	From	To	No. of Days
1	Deep Learning	DTE, Department of CSE, CET	30/12/2019	04/01/2020	6
2	Dynamical Systems and Chaos Theory	Department of Mathematics, CET	04/01/2018	06/01/2018	3
3	Sustainable Architecture: Beyond the Rhetoric	DTE, Department of Architecture, CET	18/12/2017	20/12/2017	3
4	New Dimensions of Sustainability in Built Environment	DTE, Department of Architecture, CET	18/01/2016	22/01/2016	5
5	Introduction to Sustainable Engineering	Kerala Technological University	18/06/2015	20/06/2015	3
6	Research Document Preparation using LATEX	DTE, Department of CSE, CET	08/12/2014	12/12/2014	5
7	Fluid Mechanics	ISTE, IIT Kharagpur, Remote Centre: MCET	20/05/2014	30/05/2014	11
8	Communication Skills for Managers	Administrative Staff College, Hyderabad	20/01/2014	24/01/2014	5
9	Residential Training Programme on "Organizational Development and Project Management"	National Productivity Council, New Delhi, Centre: Leh, Ladakh	05/08/2013	09/08/2013	5
10	Participatory Learning and Training Programme on "Science and Technology for Rural Societies"	LBS National Academy of Administration, Mussoorie	20/05/2013	31/05/2013	12
11	Application of Solar Energy and Photovoltaics	AICTE, IIT Delhi	12/12/2012	18/12/2012	7
12	Solar Photovoltaics: Field Engineers	Engineering Staff College of India, Hyderabad	10/10/2012	14/10/2012	5
13	English Proficiency through Language Lab	DTE, Department of EEE, GEC Idukki	09/07/2012	14/07/2012	6
14	Introduction to Research Methodologies	ISTE, IIT Bombay, Remote Centre: GEC Idukki	25/06/2012	04/07/2012	10
15	Fundamentals and Applications of Fluid Mechanics	Graduate School of Science and Engineering, Saga University, Japan	16/08/2010	20/08/2010	5
16	Advanced Gas Dynamics	Department of Mechanical Engineering, Andong National University, South Korea	04/08/2009	08/08/2009	5
17	Advanced Fluid Engineering	Graduate School of Science and Engineering, Saga University, Japan	06/08/2008	09/08/2008	4
18	Fundamentals of Tribology & Materials for Tribological Applications	AICTE, Institute of Technology, Banaras Hindu University, Varanasi	27/02/2006	11/03/2006	13
19	Applications of CAD/CAE/CAM & IT in Product Development & Discrete Manufacturing	AICTE, PSG College of Technology, Coimbatore	06/11/2005	19/11/2005	14
20	MEMS & Mechatronics	ISTE, National Institute of Technology Karnataka, Surathkal	22/11/2004	04/12/2004	13
21	Advances in Space Cryogenics	ISTE,TKM College of Engg., Kollam	04/10/2004	16/10/2004	13
22	Fundamentals of Cryogenic Technology	AICTE, Indian Institute of Science, Bangalore	17/11/2003	21/11/2003	5
23	Fluid Power Control & Flow Metering Techniques	ISTE, N.S.S. College of Engg., & FCRI, Palakkad	16/06/2003	29/06/2003	14

Additional Responsibilities (Selected Current and Past)

1. Faculty Coordinator, Internship Cell, CET since 01/11/2017
2. Faculty Coordinator (Technical), CET-SAT, Student Satellite Project, CET
3. Treasurer, CETAA
4. Joint Secretary, CETAA
5. Staff Adviser, 2017 admitted batch, ME
6. Staff Advisor, 2017 passed out batch, ME
7. Faculty Advisor, Quiz Club, CET since 2014
8. Executive Committee Member, PTA, CET
9. Faculty in charge University Examinations, Series Tests in the Department of ME, CET
10. Coordinator, Registration, NCTT, 2014, CET
11. Souvenir Committee, ISTE National Conference, 2014, CET
12. TEQIP Coordinator, GEC Idukki
13. Academic Nodal Officer, TEQIP, GEC Idukki
14. Coordinator, Visiting Faculty Scheme, GEC Idukki
15. Staff Editor, College Magazine, GEC Idukki
16. Vice President, Staff Club, GEC Idukki
17. Treasurer, PTA, GEC Barton Hill, Thiruvananthapuram
18. Assistant to Chief Superintendent, Examinations, GEC Barton Hill
19. Chief Staff Advisor, GEC Barton Hill, Thiruvananthapuram
20. Staff Advisor, College Union, GEC Barton Hill, Thiruvananthapuram
21. Bus Secretary, GEC Barton Hill, Thiruvananthapuram
22. Faculty Adviser cum Coordinator, 1st Aagneya, the techno-cultural fest of GEC Barton Hill
23. Founder and Coordinator, Quiz Club, GEC Barton Hill, Thiruvananthapuram
24. Founder and Coordinator, Readers' Club, GEC Barton Hill, Thiruvananthapuram