

# COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



## INFORMATION DATA SHEET



<b>Name</b>	<b>Dr Favas T K</b>
<b>Designation</b>	<b>Assistant Professor</b>
<b>Department</b>	<b>Ship Technology</b>
<b>Area of Specialization</b>	<b>Fluid Mechanics</b>
<b>Research Area</b>	<b>Computational Fluid Dynamics, Convective Heat Transfer, Entropy Generation</b>
<b>Contact</b>	<b>+91 9497302979; <a href="mailto:favastk@cusat.ac.in">favastk@cusat.ac.in</a>, <a href="mailto:favastk@gmail.com">favastk@gmail.com</a></b>

### 1. Academic Records

Degree/Exam	Branch	Topic/Elective	University	Institution	Year & Percentage/Class
Ph D	Mechanical Engineering	<b>Numerical Study of Entropy Generation in a Plate with Volumetric Energy Source</b>	NIT Calicut	National Institute of Technology Calicut	2018 – CGPA 9.50
M Tech	Mechanical Engineering	<b>Industrial Refrigeration and Cryogenic Engineering</b>	University of Kerala	T K M College of Engineering, Kollam	2004 – 87.68% - First Class with Distinction
B Tech	Mechanical Engineering		University of Calicut	Govt. Engineering College, Thrissur	2002 – 77.24% - First Class with Honors

GATE		Mechanical Engineering			2003 – 91.00 Percentile		
2		Research Publications					
National/International Journals							
SI. No	Authors (As published in the paper)	Title	Journal	ISBN/ISSN number	Year	Volume	Page No
1.	T.K. Favas, G.Jilani	Effect of variable thermal conductivity on entropy generation in a plate with internal energy generation	MATEC Web of Conferences	ISSN 00002012	2018	144	04001-10
2.	T.K. Favas, G.Jilani	The effect of non-uniform energy generation on entropy generation in a plate being cooled in a fluid medium	Heat and Mass Transfer Research Journal		2017	1(1)	35-47
3.	T.K. Favas, G.Jilani	Minimization of entropy generation in a plate with non-uniform energy generation	Indian Journal of Engineering	ISSN 2319-7757	2016	13(33)	53-60
4.	T.K. Favas, N.K. Mohammed Sajid, John M. George, K.K. Abdul Rasheed, K.A. Shafi, B. Premlet	Development of an Orifice Pulse Tube Refrigerator	Indian Journal of Cryogenics	ISSN: 0379-0479	2005	30(2)	70-73
International Conference							
SI. No	Authors	Title of the Paper	Conference	Venue		Year/Date	
1	Renju Raj, T.K. Favas	Computational Fluid Dynamics in Marine Energy Systems and Ocean Conservation – A Review	International Maritime Conference on Marine Conservation & Sustainability: Celebrating 50 Years of MARPOL	School of Legal Studies, Cochin University of Science and Technology		October 19-20, 2023	
2	T. K. Favas	Computational Fluid Dynamics – Engineering to Medicine	International Symposium on Collaborating Pathways: Uniting Disciplines for Novel Research	Moulana College of Pharmacy, Perinthalmanna		August 05, 2023	
3	T.K. Favas	Computational Fluid Flow and Heat Transfer in the Safety of Engineering	2nd Virtual International Conference on Advanced	MEA Engineering College, Perinthalmanna		May 24 – 26, 2022	

		Systems	<i>Technologies and Research in Mechanical Engineering (ISBN: 978-81-956814-0-2)</i>		
4	Renu Raj, T.K. Favas	Heat Transfer Investigations in Thermal Protective Clothing – A Review	<i>2nd Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering (ISBN: 978-81-956814-0-2)</i>	MEA Engineering College, Perinthalmanna	May 24 – 26, 2022
5	T.K. Favas, H. Mohammed Faizal	The effect of coolant Prandtl number on hotspots in plate type fuel element of a nuclear research reactor	<i>International Conference on Aerospace and Mechanical Engineering</i>	T K M College of Engineering, Kollam	December 16-18, 2021
6	Renu Raj, T.K. Favas	A review of the computational fluid dynamics investigations on fire safety in ships	<i>International Conference on Advances in Naval and Ocean Engineering (ISBN: 978-81-952577-5-1)</i>	Cochin University of Science and Technology	November 19-20, 2021
7	Mohammed Faizal H, T.K. Favas	Computational heat transfer in marine transportation systems – A review	<i>International Conference on Advances in Naval and Ocean Engineering (ISBN: 978-81-952577-5-1)</i>	Cochin University of Science and Technology	November 19-20, 2021
8	G. Jilani, T. K. Favas	Effect of variable thermal conductivity on heat transfer characteristics of a nuclear fuel element	<i>Fifth International Conference on Computational Methods for Thermal Problems, 2018, (223309), pp. 288–291 (Scopus Source Record ID 2110087765, Print ISSN 23055995, E-ISSN 23056924)</i>	Indian Institute of Science (IISc), Bangalore, India	July 9-11, 2018
9	T.K. Favas, G. Jilani	Effect of coolant Prandtl number on thermal performance of and entropy generation rates in an energy generating plate	<i>International Conference on Numerical Heat Transfer and Fluid Flow</i>	National Institute of Technology (NIT) Warangal, Telangana, India	January 19-21, 2018
10	T.K. Favas, G. Jilani	Conjugate heat transfer analysis of an energy generating plate with variable thermal conductivity	<i>1<sup>st</sup> International Conference on Mechanical Engineering</i>	Jadavpur University, Kolkata, India	January 4-6, 2018
11	T.K. Favas, G.	Entropy generation analysis of an	<i>Seventh International</i>	Indian Institute of	December 28-30,

	Jilani	energy generating plate dissipating heat into its surrounding fluid medium	<i>Conference on Theoretical, Applied, Computational and Experimental Mechanics</i>	Technology (IIT) Kharagpur, West Bengal, India	2017
12	T.K. Favas, G. Jilani	Effect of variable thermal conductivity on entropy generation in a plate with internal energy generation	<i>International Conference on Research in Mechanical Engineering Sciences</i>	Manipal Institute of Technology, Manipal, Karnataka, India,	December 21-23, 2017
13	T.K. Favas, G. Jilani	Thermal performance characteristics of a plate type nuclear fuel element with temperature dependent thermal conductivity	<i>2<sup>nd</sup> Energy System Modeling and Optimization Conference</i>	NIT Durgapur, West Bengal, India	December 11-13, 2017
14	T.K. Favas, G. Jilani	Entropy generation minimization in a plate type fuel element of a nuclear fission reactor	<i>International Conference and an Exhibition on Smart Technologies for Green and Sustainable Future (ISBN: 978-81-909984-9-9)</i>	Maulana Azad National Institute of Technology (MANIT) Bhopal, Madhya Pradesh, India	December 8-9, 2017
15	T.K. Favas, G. Jilani	Effect of variable thermal conductivity on thermal characteristics of an energy generating plate	<i>International Conference on Frontiers in Engineering, Applied Sciences and Technology (ISBN: 978-81-90838-88-7)</i>	NIT Trichy, Tamilnadu, India	March 31- April 1, 2017
16	T.K. Favas, G. Jilani	Minimization of entropy generation in a plate with non-uniform energy generation	<i>International Conference on Trends in Industrial and Mechanical Engineering</i>	MANIT, Bhopal, Madhya Pradesh, India	February 4-6, 2016
17	T. K. Favas, G.Jilani	Entropy generation minimization in a rectangular plate with volumetric energy generation	<i>International Conference on Industrial, Mechanical and Production Engineering: Advancements and Current Trends (ISBN: 978-93-84935-03-0)</i>	MANIT, Bhopal, Madhya Pradesh, India	November 27-29, 2014
<b>National Conference</b>					
<b>Sl. No</b>	<b>Authors</b>	<b>Title of the Paper</b>	<b>Conference</b>	<b>Venue</b>	<b>Year/Date</b>
1.	T. K. Favas	Role of Computational Fluid Dynamics in Wetland Studies	<i>National Conference on Reviving Wetlands (Recent Developments in Wetland Research)</i>	KSCSTE – Centre for Water Resources Development and Management (CWRDM),	October 11-13, 2023

				Kozhikode, Kerala, India	
2.	T.K.Favas, G. Jilani	Conjugate conduction-forced convection heat transfer analysis of a plate type nuclear fuel element dissipating fission heat to liquid sodium	<i>44<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power</i>	Amrita University, Kollam, Kerala, India	December 14-16, 2017
3.	T.K.Favas, G. Jilani	Numerical study of entropy generation in plate with internal energy generation	<i>National Conference on Advances in Thermal Engineering</i>	Jadavpur University, Kolkata, India	September 23-24, 2016
4.	T.K. Favas, N.K. Mohammed Sajid, John. M. George, K.K. Abdul Rasheed, K.A. Shafi, B. Premlet	Development of an Orifice Pulse Tube Refrigerator	<i>National Seminar and Conference on Cryogenics and its Frontier Applications</i>	Bengal Engineering College, Shibpur, West Bengal, India	March 25-27, 2004
<b>Book Chapter</b>					
<b>Sl. No</b>	<b>Authors</b>	<b>Title of the Chapter</b>	<b>Title of the Edited Book</b>	<b>ISBN/ISSN number</b>	<b>Editor/Publisher/Year</b>
1.	T.K. Favas, G. Jilani	Minimization of entropy generation in a plate with non-uniform energy generation	<i>Trends in Industrial and Mechanical Engineering</i>	ISBN: 978-93-84935-68-9	Verma A, Soni V K, Soni P K (Eds.), Excellent Publishing House, New Delhi, 2016
<b>Edited Books / Conference Proceedings</b>					
<b>Sl. No</b>	<b>Editors</b>	<b>Title of the Edited Book /Conference Proceedings</b>	<b>ISBN/ISSN number</b>	<b>Editor/Publisher/Year</b>	
1	Dr. Rajesh P. Nair, Dr. Favas T. K., Dr. Satheesh Babu P. K.	<i>Proceedings of the Second International Conference on Advances in Naval and Ocean Engineering</i>	ISBN: 978-81-966337-7-6	Directorate of Public Relations and Publications, Cochin University of Science and Technology, Kochi, 2023	
2	Prof. (Dr.) Deepa G. Nair, Dr. Favas T. K.	<i>Proceedings of the Golden Jubilee International Conference on Sustainable Technology and Innovation for Industry 4.0</i>	ISBN: 978-81-954804-2-5	Directorate of Public Relations and Publications, Cochin University of Science and	

				Technology, Kochi, 2022
3	Dr. Beena Mary John, Dr. Favas T. K., Dr. Satheesh Babu P. K.	<i>Proceedings of the International Conference on Advances in Ocean &amp; Naval Engineering</i>	ISBN: 978-81-952577-5-1	Chess Educational Publishers, Chennai, 2021

<b>3</b>	<b>Experience</b>				
	<b>Teaching – Regular:</b>				
Particulars	SI No.	Institution	Post held	Period	No. of years/months
	1.	Cochin University of Science and Technology	Assistant Professor	06.11.2020 to Present	3 years
	2.	National Institute of Technology Calicut	Ad-hoc Faculty	11.12.2017 to 24.04.2018	4 months
	3.	National Institute of Technology Calicut	Ad-hoc Faculty	10.07.2017 to 06.12.2017	4 months
	4.	National Institute of Technology Calicut	Ad-hoc Faculty	15.07.2016 to 07.12.2016	4 months
	5.	National Institute of Technology Calicut	Ad-hoc Faculty	23.12.2015 to 26.05.2016	5 months
	6.	National Institute of Technology Calicut	Ad-hoc Faculty	27.07.2015 to 22.12.2015	4 months
	7.	National Institute of Technology Calicut	Ad-hoc Faculty	06.01.2015 to 10.06.2015	5 months
	8.	National Institute of Technology Calicut	Ad-hoc Faculty	06.08.2014 to 30.12.2014	4 months
	9.	National Institute of Technology Calicut	Ad-hoc Faculty	16.12.2013 to 19.05.2014	5 months
	10.	National Institute of Technology Calicut	Ad-hoc Faculty	16.07.2013 to 09.12.2013	4 months
	11.	MES College of Engineering, Kuttippuram	Lecturer in Mechanical	01.10.2004 to	4 years 3 months

			Engineering	16.01.2009	
<b>Teaching – Visiting/Part Time</b>					
	1.	National Institute of Technology Calicut	MHRD Part Time Teaching Assistantship	January 2009 – December 2013	4 years
	2.	MES College Mampad	Visiting Faculty to MSc Food Technology	2005-2006	6 months
<b>Industrial/Other</b>					
	1.	Kerala Water Authority	Assistant Engineer	26.04.2018 to 05.11.2020	2 years 6 months
	2.	Travancore Cochin Chemicals Limited	Unpaid Apprentice	August 2002 – September 2002	2 months
<b>Subjects Taught:</b>					
<b>Undergraduate Level</b> - Computational Methods in Engineering, Computer Programming, Thermodynamics, Thermodynamics and Heat Transfer, Applied Thermodynamics, Environmental Studies for Mechanical Engineers, Basic Mechanical Engineering, Fluid Mechanics, Advanced Mechanics of Flow, Design of Heat Transfer Equipments, Refrigeration and Air-conditioning, Advanced Mechanics of Solids, Principles of Management, Metal Forming, Material Science, Design of Machine Elements, Computational Fluid Dynamics in Marine Technology, Marine Pollution Prevention and Management, Fluid Mechanics – II, Joining Techniques in Shipbuilding Technology					
<b>PG/Ph D Level</b> - Analytical Methods in Heat Transfer II (Convective Heat Transfer), Advanced Instrumentation, Non-conventional Energy Systems, Advanced Fluid Mechanics, Advanced Refrigeration Systems, Analytical Methods in Fluid Flow and Heat Transfer, Computational Fluid Flow and Heat Transfer					
<b>Academic Responsibilities and Roles</b>					
<ul style="list-style-type: none"> <li>• Question Paper Setting and Evaluation, PhD Comprehensive Examination, APJ Abdul Kalam Technological University, 2022-23</li> <li>• BTech/MTech Question Paper Setting, Kerala University of Fisheries and Ocean Sciences (KUFOS), 2021-22 and 2022-23</li> <li>• External Examiner, M.Tech Viva-Voce, APJ Abdul Kalam Technological University, 2021-22</li> <li>• External Examiner, B.Tech Comprehensive Examination of APJ Abdul Kalam Technological University, 2018-19 and 2020-21</li> <li>• External Examiner, B.Tech Final Year Project of APJ Abdul Kalam Technological University, 2018-19 and 2021-22</li> <li>• Coordinator, B.Tech Question Paper Setting, APJ Abdul Kalam Technological University, 2020-21</li> <li>• Coordinator, PhD Admissions, Department of Ship Technology, CUSAT (Since July 2021 onwards)</li> <li>• Coordinator, Department Research Committee, Department of Ship Technology (Since July 2021 onwards)</li> <li>• Faculty in Charge, Criterion VI – Governance, Leadership and Management of NAAC Accreditation Works at CUSAT during 2020-2022</li> <li>• Participated in NBA Accreditation Works at MES College of Engineering Kuttippuram (2007-2008), NIT Calicut (2016-2017) &amp; CUSAT(2022-2023)</li> </ul>					

- Lab-in-Charge, Heat Transfer Laboratory, MES College of Engineering, Kuttippuram, 2007-2008

#### 4. Participation in Training Programs/Workshops

SI No.	Duration	Title	Agency	Institution	Period
1	Two Days	International Workshop on Ocean Energy – Recent Trends	Department of Ocean Engineering, Indian Institute of Technology Madras	Indian Institute of Technology Madras	October 30-31, 2023
2	One Week	Training Program on Energy: Fundamentals to Research	Directorate of Technical Education	Government Engineering College, Kozhikode	February 27 – March 03, 2023
3	One Day	Technical Book Translation	AICTE	Kerala University of Digital Sciences, Innovation and Technology	December 22, 2022
4	Two Days	Translational Research and Technology Commercialization	Research Innovation Network Kerala	University of Calicut	November 02-03, 2022
5	Three Days	WEM 202 – Water and Environmental Management	Kerala State Council for Science, Technology and Environment (KSCSTE)	Centre for Water Resources Development and Management (CWRDM), Kozhikode	June 22-24, 2022
6	Two Days	SciTalk – Science Communication Workshop	Directorate of Public Relations & Publications	Cochin University of Science and Technology	May 26-27, 2022
7	One Day	Bringing Research Focus	IEEE	IEEE Kochi	April 07, 2022
8	Five Days	Advanced Modeling and Innovations in Water Resources Engineering and Management	NIT Hamirpur	NIT Hamirpur	February 28 – March 04, 2022
9	One Day	Golden Jubilee Celebratory Workshop on Writing Quality Research Articles and Identifying Relevant Journals to Read and Publish in	Elsevier and CUSAT Library	Cochin University of Science and Technology	December 14, 2021
10	One Day	Inspiring Innovation at CUSAT with IEEE Research	IEEE and CUSAT Library	Cochin University of Science and Technology	October 28, 2021
11	Three Days	IEEE Mini POCO Workshop 2021	IEEE Kochi Subsection and APJ KTU	IEEE Kochi	September 02-04, 2021

12	One Day	National Educational Policy 2020 : Way Ahead	Rajkiya Engineering College, Mainpuri, UP	Rajkiya Engineering College, Mainpuri, UP	August 27, 2021
13	One Week	Computational Fluid Dynamics – A Potential Engineering Tool	Centurion University of Technology and Management, Odisha	Centurion University of Technology and Management, Odisha	July 26-30, 2021
14	Three Days	Technological Advancements in Naval, Defense and Space Applications: An industry 5.0 Approach	NS Raju Institute of Technology, Visakhapatnam	NS Raju Institute of Technology, Visakhapatnam	July 08-10, 2021
15	One Day	A Digital Passage : Progressive Tools for Maritime Research and Development : An Industry 5.0 Approach	Kunjali Marakkar School of Marine Engineering, CUSAT	Kunjali Marakkar School of Marine Engineering, CUSAT	July 06, 2021
16	One Week	Prudent Teaching Dynamics	IQAC	SAFI Institute of Advanced Study, Kerala	June 21-28, 2021
17	One Month	Online Induction Program for Newly Recruited Teachers	Centre for Employee Empowerment and Skill Acquisition (CEESA)	CUSAT	March 17 – April 16, 2021
18	One Week	Advanced Computational Techniques in Water Resources Engineering and Management (ACT-WREM 2021)	Department of Civil Engineering	NIT Hamirpur	March 01-05, 2021
19	One day	NEP 2020 : Implementation and Implications in HEI	School of Engineering under TEQIP III	CUSAT	February 25, 2021
20	Two days	New Examination Reforms (AICTE)	School of Engineering under TEQIP III	CUSAT	February 18-19, 2021
21	One Week	Modern Pedagogical Techniques for Effective Teaching & Learning	AICTE-ATAL	NRI Institute of Technology, Andhra Pradesh	February 08-12, 2021
22	One Week	Blended Learning and Flipped Classroom	AICTE-ATAL	Vellore Institute of Technology	January 18-22, 2021
23	One Week	CFD	AICTE-ATAL	LBS College of Engineering, Kasaragod	January 04-08, 2021
24	One day	Online Tools for Research	Department of Ship Technology	CUSAT	December 20, 2020

25	One day	The Art of Writing and Publishing Research Papers in International Journals	Department of Ship Technology	CUSAT	November 24, 2020
26	One day	Hydraulic Layout and Design of Water Supply Components	Kerala Water Authority (KWA)	Centre for Water Education, Thiruvananthapuram	January 14, 2020
27	One day	Material Management and Purchase Rules	KWA	Centre for Water Education, Thiruvananthapuram	October 25, 2019
28	Three Weeks	Induction Level Training to Assistant Engineers	KWA	Centre for Water Education, Thiruvananthapuram	July 29-August 09 & September 23-27, 2019
29	Three days	IT Enabled Application in Water Supply and Sewerage Projects	The Institution of Engineers (India)	Engineering Staff College of India (ESCI), Hyderabad	July 09-11, 2019
30	One day	Handling of Chlorine and Use of Breathing Apparatus	TCC	The Travancore - Cochin Chemicals Ltd. Kochi	June 13, 2019
31	Three days	Water Transmission and Distribution Engineering	KWA	Centre for Water Education, Thiruvananthapuram	February 12-14, 2019
32	One day	Design and Selection of Pump sets	KWA	Centre for Water Education, Thiruvananthapuram	January 16, 2019
33	One Week	Computer Aided Design of Pipelines and Pipe Networks for Water Supply and Sewerage Systems	CPHEEO	VNIT Nagpur	December 06-12, 2018
34	Two days	Operation and Maintenance of Pumps and Motors	KWA	Centre for Water Education, Thiruvananthapuram	November 21-22, 2018
35	One day	Research Writing: Technical and Language Aspects	AICTE-MHRD-TEQIP-II	NIT Calicut	February 28, 2016
36	Two days	National Meet for Research Scholars	TEQIP –II	NIT Calicut	July 3-4, 2015

37	Four days	Instructional Design and Pedagogical Aspects of Engineering Education	MHRD-TEQIP	NIT Calicut	January 2-5, 2014
38	One Week	Development in Air-Conditioning and Ventilation	AICTE, New Delhi	IIT Madras	August 16-22, 2008
39	One Week	Marketing Strategy for Small and Medium Enterprises in the Changing Global Scenario	AICTE-ISTE	MES College of Engineering, Kuttippuram	June 23-28, 2008
40	One Week	Advances in Thermal Management of Electronic Systems	AICTE-ISTE	TKM College of Engineering, Kollam	June 16-21, 2008
41	One Week	Instructional Design and Delivery	NITTR Chennai - QIP	MESCE, Kuttippuram	March 14-19, 2005
42	Two Weeks	Marine and Industrial Refrigeration	CIFNET	Central Institute of Fisheries, Nautical and Engineering Training, Kochi	October 13-23, 2003
43	One Week	Vocational Training in Oxygen Plant of Titanium Dioxide Pigment Unit	KMML	The Kerala Minerals and Metals Ltd, Kollam	September 01-05, 2003
44	Two months	Industrial Training at Mechanical Maintenance Department	TCC	Travancore Cochin Chemicals (TCC) Limited, Cochin	July-August, 2002
45	Two days	Essay Workshop	Kerala Sahithya Academy	Prof.P. Sankaran Nambiar Foundation, Thrissur	November 18 & 25, 2000
46	Two days	Training Program on Energy Conservation and Audit	EMC-Kerala & ISTE Thiruvananthapuram	Energy Management Centre-Kerala, Thiruvananthapuram	August 25-26, 2000

#### Conferences/Seminars Organized

SI No.	Title	Responsibility	Held at/Organized by	Period
1	Second International Conference on Advances in Naval and Ocean Engineering (iCANOE 23)	Convenor	Department of Ship Technology, CUSAT	November 03-04, 2023
2	Virtual Lab Workshop	Convenor	Department of Ship Technology, CUSAT	October 16, 2023

3	Two Day National Seminar on Foundations of Computational Fluid Dynamics for Marine Technology	Convenor	Department of Ship Technology, CUSAT	March 17-18, 2023
4	IEEE INDICON 2022	Organizing Committee Member	Cochin University of Science and Technology	November 24 – 26, 2022
5	Student Induction Program 2022	Organizing Committee Member	Cochin University of Science and Technology	November 20 – December 05, 2022
6	KSCSTE – TECHFEST (Technology Festival) 2022	Technical Core Programme Committee Member	Cochin University of Science and Technology	October 26-28, 2022
7	Kick Starter Session on CFD with OpenFOAM	Coordinator	Department of Ship Technology, CUSAT	November 22, 2022
8	Seminar on CFD Analysis using STARCCM+	Coordinator	Department of Ship Technology, CUSAT	November 09, 2022
9	Seminar on Joining Techniques in Shipbuilding	Coordinator	Department of Ship Technology, CUSAT	November 08, 2022
10	Research Orientation Programme	Coordinator	Department of Ship Technology, CUSAT	August 25, 2022
11	Golden Jubilee International Conference on Sustainable Technologies and Innovations for Industry 4.0	Co-chair, Editor-Book of Abstracts	Cochin University of Science and Technology	April 21-22, 2022
12	Erudite Lecture by Dr. Gopu R Potty on Research Opportunities in Naval and Ocean Engineering	Coordinator	Cochin University of Science and Technology	December 06, 2021
13	International Conference on Advances in Naval and Ocean Engineering	Joint convener, Editor – Conference Proceedings	Cochin University of Science and Technology	November 19-20, 2021
14	International Webinar on Landslides in Kerala: Driving Factors and Mitigation Measures	Coordinator	Science for Humanity	November 06, 2021
15	International Webinar on Science in the Post Covid Era – Challenges and Opportunities	Coordinator	Science for Humanity	April 03, 2021
16	International Conference on Advances in Tribology	Member, Cultural Program Committee	NIT Calicut	February 21-24, 2014
<b>5. Membership in Academic Bodies/Professional Organizations</b>				
SI No.	Organization	Details		

1.	Indian Society for Technical Education	Life Member – LM 51087			
6. Research Projects					
SI No.	Title	Agency and Details			
1.	Numerical Prediction of Hotspots and Entropy Generation in Energy Generating Components Cooled by Nanofluids/Liquid Metals by considering Temperature Dependency of Thermo-physical Properties	Seed Money for New Research Initiatives (SMNRI) under State Plan Grant of Cochin University of Science and Technology – Rs 1 Lakh (Period – 2years) – Ongoing			
7. Extension Activities					
	SI No.	Responsibility	Title	Institution	Period
	1	Visiting Faculty	2 days (15 hours) 1 Credit Special Corse for B.E Civil Engineering Students	Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu	October 03 – 04, 2023
	2	Panelist	Table Talk on Research, Education and Employability Iin alignment with United Nations SDG-4 Quality Education)	Jamia Al Hind Al Islamiya, Mini Ootty, Malappuram	October 01, 2023
	3	Resource Person	Students Orientation Programme – Space Observance Week	BACE English School, Vazhakkad, Malappuram	September 30, 2023
	4	Resource Person – Meet the Expert	Higher Studies in Science and Technology	Green Valley Public School, Nellikkaparamba, Kozhikode	September 28, 2023
	5	Resource Person	Monthly Talk Series	Global Islamic Foundation for the Blind (GIFB), Pulikkal, Malappuram	August 27, 2023
	6	Resource Person	Higher Education Orientation Programme on Prospects of Science and Technology	WMO IG Arts and Science College, Wayanad	August 07, 2023

	7	<b>Panelist</b>	Mock Interview	Association of Kerala Water Authority Officers Association (AKWAO)	July 29, 2023
	8	<b>Resource Person</b>	Research Orientation Program	Peace Public School, Kottakkal	July 28, 2023
	9	<b>Chief Guest</b>	Student Empowerment Program	Institute of Talent and Excellence, Perumbavoor, Eranakulam	July 15, 2023
	10	<b>Resource Person</b>	Career Seminar on Future of Science and Technology	GHSS Arekode, Malappuram	June 27, 2023
	11	<b>Chief Advisor</b>	Peace Little Scholar programme	Peace Public School Kottakkal	2023-24
	12	<b>Resource Person</b>	Inspiring Innovation – Orientation Program for Secondary Students	MEMS International, Kozhikode	May 27, 2023
	13	<b>Guest Speaker</b>	Valedictory Function of National Conference on Emerging Technologies	Royal College of Engineering and Technology, Thrissur	May 12, 2023
	14	<b>Expert Talk</b>	Basics of Water Supply Schemes	Mangalam College of Engineering, Ettumanoor	May 10, 2023
	15	<b>Author – Yojana Magazine</b>	Computational Predictions	Publication Division, Ministry of Information and Broadcasting, Government of India	May 2023
	16	<b>Resource Person</b>	Seminar on Computational Fluid Dynamics and its Applications	KMCT College of Engineering, Kozhikode	April 24, 2023
	17	<b>Resource Person</b>	Computational Fluid Flow and Heat Transfer – Mathematical	Cochin University of Science and Technology	March 17-18, 2023

			Formulation to Coding in Two Day National Seminar on Computational Fluid Dynamics for Marine Technology		
	18	<b>Chief Guest</b>	Felicitation Ceremony	Talim International Foundation	February 26, 2023
	19	<b>Resource Person</b>	Science Club Talk on Future of Science and Technology	VPKMMHSS, Puthur Pallikkal, Malappuram	February 20, 2023
	20	<b>Inuguration and Invited Talk</b>	Crescendo 2k22 School Science Exhibition	Green Valley Public School, Nellikaparamba, Mukkam, Kozhikode	November 26, 2022
	21	<b>Hospitality Committee Member</b>	NAAC Peer Team Visit	CUSAT	October 12-14, 2022
	22	<b>Invited Talk</b>	Research as a Career	PPMHSS Kottukkara, Malappuram	July 17, 2022
	23	<b>Invited Talk</b>	Selection of Pumps for Water Supply Schemes	Mangalam College of Engineering	June 18, 2022
	24	<b>Co-chair</b>	Golden Jubilee International Conference on Sustainable Technology and Innovation for Industry 4.0	Virtual Centre for Advanced Research in Engineering Science and Technology, Cochin University of Science and Technology	April 21-22, 2022
	25	<b>Co-chair, Reviewer</b>	International Conference on Advances in Naval and Ocean Engineering	Cochin University of Science and Technology	November 19-20, 2021
	26	<b>Invited Talk</b> on Flourish in the Campus	Students Induction Program	Cochin University of Science and Technology	October 28- November 05, 2021
	27	<b>Inaugural Message</b>	Reading Week	GHSS Muthuvallur, Malappuram	June 19-25, 2021

	28	<b>Author of Technical Article</b>	<i>Ezhthappednda Pareekshana-Nireekshana-Gaveshanangal</i>	AKWAO NEWS (Vol 6, No: 1)	January, 2021
	29	<b>Reviewer – Technical Papers</b>	International Conference on Frontiers in Engineering, Science and Technology (ICFEST 2020)	Yenepoya Institute of Technology, Moodbidri, Mangaluru	December 19-20, 2020
	30	<b>Certificate of Excellence in Reviewing</b> in recognition of outstanding contribution to the quality of <b>AIP/CCIS Springer Proceedings 2020</b>	International Conference on Computational Sciences: Modelling, Computing and Soft Computing (CSMCS 2020)	National Institute of Technology Calicut	September 10-12, 2020
	31	<b>Reviewer – Technical Papers</b>	National Conference on Recent Advances in Mechanical Engineering and Technology (NCRAMET – 19)	Yenepoya Institute of Technology, Moodbidri, Mangaluru	April 29-30, 2019

#### 8. Awards/Achievements

- Best Paper Award in the International Maritime Conference held at School of Legal Studies, CUSAT, October 2023
- Beloved Alumnus for Excellent Achievement award as part of 35<sup>th</sup> anniversary celebrations of VIDYA, Kondotty – December 2021
- Research Supervisor under Faculty of Technology of CUSAT – February 2021
- Best Participant (1st Rank) in Induction Level Training to Assistant Engineers - 2019 conducted by Centre for Water Education, Thiruvananthapuram
- Second Rank for M Tech Mechanical Engineering at University of Kerala – December 2004
- Second Prize in All Kerala Essay Competition conducted by Kerala Water Authority on *Water Conservation* as part of *Manaveeyam* 2000
- Second Prize in All Kerala Essay Competition conducted by Dr K K Rahulan Sapthathi Agosha Committee during November 2000
- Third Prize - Malayalam Essay Writing Competition in University Arts Festival (Inter-zone) of University of Calicut, March 1998

#### 9. Social Service/Extra Curricular Activities

- Presented in *Saasthra Deepthi* program of *Akashavani* Kochi FM, October 2023
- Secretary, Parent Teachers Association, Department of Ship Technology, CUSAT since April 2021- August 2023
- Editorial Board Member of *Reflections* – Alumni Magazine of GEC Thrissur, October 2020
- Editorial Member of *Maayaatha Kaalpaadukal Thedi*-a souvenir published as part of 20<sup>th</sup> anniversary of PPMHS SSLC-96 Batch, 2016
- Participated in Ten days NSS special camping program conducted at TKM College of Engineering Kollam, February 2004
- Executive Member of *ISTE Students Chapter*, GEC Thrissur, 2000-2001

• Editorial Board Member of <i>Reflections</i> – an All Kerala intercollegiate Magazine during 2001-2002
• Associate Editor of <i>Chrysalis</i> -College Magazine of GEC Thrissur of 2000-2001
• Joint Convener, Media Committee, <i>Thrissur Motor Show</i> and <i>Rhapsody</i> of 2001
• Participated in Campus Discussion Programs broadcasted by <i>Akashavaani</i> Thrissur Nilayam during 2001

### **DECLARATION**

I, Dr Favas T K, hereby declare that all information and data furnished above are true to the best of my knowledge and belief.

Place: CUSAT

Date: 06/11/2023



**Signature**