

Name of Faculty Dr. Y. S. Kannan  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 20-09-2021  
 E-mail yskannan\_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Fluid Power Systems), IIT-Hyderabad	Awarded
PG	M. Tech (Thermal Power Engineering) NIT-Tiruchirappalli	First with Distinction
UG	B. E (Mechanical Engineering) CBIT.	First with Distinction

**Work Experience**

Teaching	01 Year
Research	09 years
Industry	--
Others	--
Area of Specialization	Experimental Fluid Dynamics, Heat Transfer
Professional Memberships	IICHE (Indian Institute of Chemical Engineers, Membership No.: LAM-70968)
Responsibilities held at Institution Level	--
Responsibilities held at Department Level	--
Research Guidance	--
Awards Received	--

	UG	PG
Courses Handled at Under Graduate / Post Graduate Level.	1. Metrology and Instrumentation. 2. Engineering Exploration. 3. Workshop and Manufacturing practice.	1. Introduction to Optimization Techniques.
No. of Papers Published	National Journals – 00 National Conference – 00	International Journals – 02 International Conference – 04

Projects Carried out	--
Patents	01
Technology Transfer	1. Highly compact cost-effective RO/Nanofiltration system Technology Transfer with varying capacities of 50-200 LPH for the small helmets. 2. Novel low-cost cascaded RO System for Production of Zero TDS Water
Invited Speaker	--

No. of Books/Chapter Published with details

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Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (**Attended and/or Organized**).

1. Dr. Y. S. Kannan has attended a One week Faculty Development Programme on 'Application of Artificial Intelligence and Machine Learning in Mechanical Engineering (AAIME-2021)' organized by department of Mechanical Engineering, Maturi Venkata Subba Rao (MVSR) Engineering College from 18-10-21 to 23-10-21.
2. Dr. Y. S. Kannan has attended a 5 day SERB online international workshop on 'Recent Advancements in Modelling Analysis of Porous Material' organized by department of Mechanical Engineering, NIT Suratkal from 28-2-22 to 4-3-22.
3. Dr. Y. S. Kannan attended a three day FDP on "Establishment and Management of Business Incubation" during 10-12 March, 2022 in association with NI-MSME, (National Institute of Micro, Small and Medium Enterprises) Ministry of MSME Govt. of India.
4. Attended 2 week online faculty development programme on "Recent Trends in Robotics" jointly organized by Electronics and ICT academics at IIT Roorke, MNIT Jaipur, NIT Patna and PDPM IITDM Jabalpur during 04.07.2022 to 15.07.2022.
5. Participated in the AICTE Recognized Faculty Development Programme on Smart Materials Processing and Applications Conducted by NITTTR, Chandigarh from 25/07/2022 to 29/07/2022

Details of Journal Publications/  
Conferences (**National and International**)  
**International Journal from the year 2017**

1. Y. S. Kannan, B. Karri, K. C. Sahu, "Entrapment and interaction of an air bubble with and oscillating cavitation bubble", Physics of Fluids vol. 30 (4), 041701, 2018, American Institute of Physics (AIP) publications.
2. Y. S. Kannan, S. Balusamy, B. Karri, K. C. Sahu, "Effect of viscosity on the volumetric oscillations of a non-equilibrium bubble in free-field and near a free-surface", Experimental Thermal and Fluid Science. 116, 110113, 2020.

#### **International Conferences**

1. Y. S. Kannan, S. Balusamy, B. Karri, "Laser diagnostics for characterization of sprays formed by a collapsing non-equilibrium bubble", 9th International symposium on Cavitation (CAV2015), Journal of Physics: Conference Series, IOP Publishing, December 6-10, 2015, EPFL, Switzerland (Scopus indexed).
2. D. Vamshidhar Reddy, Y. S. Kannan, Badarinath Karri and K. C. Sahu, "Dynamics of water and glycerol drops sliding down an inclined plane", Proceedings of the 7th International and 45th National Conference on Fluid Mechanics and Fluid Power (FMFP), December 10-12, 2018, IIT-Bombay, Mumbai, India.
3. R. Kamatchi, Y. S. Kannan, S. Venkatachalapathy, "Effect of Surface Modifications on the Enhancement of Critical Heat Flux in Saturated Pool Boiling" Proceedings of International Conference on Advances Research in Mechanical, Aeronautical and Civil, International Innovative Scientific Research and Organisation (IISRO)- 5th to 8th September, 2013, Thailand, pp 75-79.
4. • Ranjit J. Singh, Y. S. Kannan, Ravi Degala, "The numerical analysis of the sloshing tank with baffles at the high amplitude of vertical oscillation using OpenFOAM", Materials Today: Proceedings, 62 (6) (2022) 4094-4097.