Name of Faculty Designation

Nature of Job/Appointment

Date of Joining

E-mail

Education Qualifications

Ph. D

PG

UG

Work Experience

Teaching Research Industry Others

Area of Specialization Professional Memberships

Responsibilities held at Institution Level

Responsibilities held at Department Level

Research Guidance Awards Received

Courses Handled at Under Graduate / Post Graduate Level.

No. of Papers Published Projects Carried out

Patents Technology Transfer Invited Speaker

No. of Books/Chapter Published with details

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

Dr. Y. S. Kannan Assistant Professor

Regular 20-09-2021

yskannan_mech@cbit.ac.in

Name of the Degree

Doctor of Philosophy (Fluid Power Systems), IIT-Hyderabad M. Tech (Thermal Power Engineering) NIT-Tiruchirappalli B. E (Mechanical Engineering)

CBIT



Class

Awarded
First with
Distinction
First with
Distinction

01 years 09 years

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Experimental Fluid Dynamics, Heat Transfer

Under Graduate

- 1. Metrology and Instrumentation.
- 2. Engineering Exploration.
- 3. Workshop and Manufacturing practice.
- 4. Power plant engineering.
- 5. Computer aided design and drafting lab.
- 6. Robotics and drones lab.
- 7. Metrology and instrumentation lab.
- 8. Thermal Engineering lab.

Post Graduate:

Introduction to Optimization Techniques.

National Journals – 00 National Conference – 00 International Journals – 05 International Conference – 06

06

- 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 23-1021.
- 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.
- 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.
- 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 IIITDM Jabalpur during 04.07.2022 to 15.07.2022.
- 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

- 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.
- 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.
- Singh RJ, Y. S. Kannan, Nimmagadda R, Shukla B. Numerical Investigation on Regulation and Suppression of Heat and Mass Transfer by Varying Thermal and Solutal Buoyancy Force. Engineering Research Express. 2023 Mar 21.
- Murali Krishna, M.V.S., Ravidra Reddy,P.V.R., Narasimha Kumar, S., Kannan, Y.S. and Jagapathi Babu, D. Experimental investigations on exhaust emissions of insulated diesel engine fuelled with CNG and cottonseed biodiesel, Gradiva Review Journal, 8(8), 192-203. 2022
- 2. Murali Krishna, M.V.S., Ravidra Reddy, P.V.R., Narasimha Kumar, S., Kannan, Y.S. and Jagapathi Babu, D. Influence of injection timing and injection pressure on pollution levels of insulated diesel engine fuelled with CNG and cottonseed biodiesel, Ecology, Environment and Conservation, January Issue, 2023

International Conferences:

- 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).
- 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.
- 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.
- 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.
- Ashwin Raut, Ranjit J. Singh, Y. S. Kannan, Rahul, "Insulation behavior of foam based geo-polymer as a thermally efficient sustainable blocks", Constructions Materials and Structures ICCMS-2022, NIT-Calicut, Virtual Mode, 2023.