Research Overview

Dr. S SUYAMBAZHAHAN
Professor
Department of Mechanical Engineering
SRM Institute of Science and Technology, Ramapuram, Chennai – 600089.
Email: suyambas@srmist.edu.in

Recognized PhD Supervisor
SRMIST/R/TAP 10387/Estt./2023/3232

For more details, please visit my website
www.suyambazhahan.com

I have obtained the Professional Degree of "Doctor of Philosophy (PhD)" from India's Premier Institution, Indian Institute of Technology Madras (IITM) in the field of Computational Fluid Dynamics (CFD) and Heat Transfer at Department of Mechanical Engineering under the guidance of **Prof. T Sundararajan and Prof Sarit Kumar Das, and the support of Prof V Ganesan**. I have 33+ Years of experience in Academic, Research and Administration out of which 20+ years post PhD research experience as Professor and 14+ years as Principal [Head of the Institution] in NBA, NAAC [A Grade] Accredited Anna University Affiliated Engineering Colleges (AUAEC) in Chennai. Also, I have worked as Research Professor in ABET Accredited International Universities for 4 Years.

My areas of Research include

- CFD & Heat Transfer (Thermo-fluids)
- Flow and thermal oscillations in Jet flows
- Nano-Fluids for solar collectors
- Thermal Solar Sorption Cooling Systems-
- Characterization of Sheffler solar concentrator
- solar thermal energy storage system
- Passive cooling
- Alternate fuels in IC Engines
- Thermal striping in LMFBR
- Flow maldistribution in thermal hydraulic performance of Heat Exchangers
- Vapour Absorption System for cooling applications
- Residual stress prediction in Additive Manufacturing

I have received the research grant for the worth of **INR. 3.94 Crores [558450 USD]** from various Indian funding agencies like **AICTE, DST, DRDO, MSME, DAE, ISRO, etc.** I have published **40+ Research Articles** in International Journals & Conferences, **6 Patents** (Australian - 3, and Indian – 3) and **7+ textbooks** of Mechanical Engineering Courses. There are 42 B Tech and 27 M Tech and 2 PhD scholars were successfully completed under my guidance.