




SRIRAM ENGINEERING COLLEGE
DEPARTMENT OF CHEMICAL ENGINEERING

Name & Photo	<p style="text-align: center;">Dr. Karthikeyan C P</p>  <p style="text-align: center;">karthikeyanpc.chemical@sriramec.edu.in</p>
Designation	Professor
Qualification	B. Tech (Chemical Engineering) M. Tech (Energy Conservation & Management) Ph. D (Engineering)
Area of Specialization	Energy Engineering
Teaching Experience	18 Years
Teaching Interests	<ul style="list-style-type: none">• Thermodynamics• Heat and Mass Transfer• Computational Fluid Dynamics (FVM)• Energy Technology
Research Interests	<ul style="list-style-type: none">• Artificial Intelligence in Energy Conversion• Clean Development Mechanisms (CDM) for Engineering Solutions

Experience Details

Name of the Institution	Designation	Total No. of years & Months
Sriram Engineering College	Professor	18.05.2022 to Till Date
VIT University, Chennai	Professor	4 Years
VIT University, Vellore	Associate Professor	4 Years
SRM Institute, Kattankulathur	Associate Professor	2 Years

Project Grant Received

Experimentation and CFD Analysis of a 10 kW_e Circulating Fluidized Bed Biomass Gasifier

Project No. SR/S3/MERC/21/2007

Amount Sanctioned: INR 22 Lakhs

Funding Agency: **Department of Science and Technology, Govt. of India, New Delhi**

3 years: 2007 to 2010 (Status: **Completed**)

Role: Co-Investigator

Host Institute: VIT University, Vellore.

International Travel Grants Received

1. Travel Grant from Dublin City University, **Ireland (€1204)** in the year **2017** - Invited as an external examiner for Ph. D Viva-voce Examination to DCU, Ireland.
Thesis Title: *Comparative study between two nozzle assemblies for high-velocity oxy-fuel (HVOF) thermal spray coating process.*
2. Travel Grant from VIT University/Dublin City University, (**€ 1409**) in the year **2014** - Research collaboration meeting held in **Ireland** - *Numerical modeling of HVOF thermal spray coating process.*
3. European Union (**EU**) Funded Grant for Travel to **Germany** and **The Netherlands (€ 2944** in the Year **2007**) Staff Exchange Program - *Curriculum Development for a Specialized B.Tech. Mechanical Engineering Program on Energy.*

Best of Journal Publications

1. Karthikeyan C.P., Deepakkumar R, Numerical modelling of dry-out in pulsating heat pipe using VOF model, **Journal of Mechanical Science and Technology (2021)** Article in Press (**Springer - Impact Factor 1.734**) ISSN 1226-4865
2. C P Karthikeyan, G Kalpana, V Krishnamoorthy, and Anand A Samuel, Transient numerical analysis of thermophoresis and particle dynamics in a nanofluid – pool boiling conditions, **Journal of Molecular Liquids** 301 (2020) 112459 1-14 (**Elsevier - Impact Factor 5.061**) ISSN: 0167-7322 <https://doi.org/10.1016/j.molliq.2020.112459>
3. N. Gobinath, T. Venugopal, Karthikeyan Palani, Anand A. Samuel, Numerical modeling of thermophoresis in water-alumina nanofluid under pool boiling conditions, **International Journal of Thermal Sciences** 129 (2018) 1–13 (**Elsevier - Impact Factor 3.467**) ISSN: 1290-0729 <https://doi.org/10.1016/j.ijthermalsci.2018.02.025>
4. C. P. Karthikeyan, Anand A. Samuel, CO₂ - dispersion studies in an operation theatre under transient conditions, **Energy and Buildings** 40 (2008) pp. 231-239 (**Elsevier - Impact Factor 4.867**) ISSN: 0378-7788 <https://doi.org/10.1016/j.enbuild.2007.02.023>
5. Jeya Saravanan, C. P. Karthikeyan, and Anand A Samuel, Influence of Exogenous and Endogenous Factors on the Exergy Analysis of 3-Column Array Wind Farm, **International Journal of Exergy**, Vol. 14, No.1, **2014**, pp. 83 – 100 (**Inderscience - Impact Factor 1.012**) ISSN online: 1742-8300 DOI: [10.1504/IJEX.2014.059514](https://doi.org/10.1504/IJEX.2014.059514)