

# Curriculum Vitae

## **Dr. C. Thirumurugan**

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Vellore DT., Tamil Nadu, INDIA.  
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## **EXPERIENCE**

- Assistant Professor, TIFAC-CORE Research center, **VIT Vellore**. (June 2020- to date).
- Assistant Professor, High voltage lab, EE Dept., **VJTI, Mumbai**, India (July 2019-May 2020).
- Lecturer in EE Dept., **NPSB College of Engineering & Technology-Chennai**, India (8 months).

## **EDUCATION**

- **PhD**- Research degree in the Electrical Engineering (research area: High Voltage Engg) at **Indian Institute of Technology (IIT) Mandi, H.P.**, India, September 2019.
- **M.E**- Post graduate degree in the division of High Voltage Engineering, from **College of Engineering-Guindy, Anna University, Chennai**.
- **B.E**-Under graduate degree in the branch of Electrical and Electronics Engineering, from **Government College of Engineering Bargur**.

## **FIELD OF INTEREST AND SPONSERED PROJECTS**

- High voltage engineering and testing, PD diagnostics.
- Pulsed electric field applications - Preserving liquid foods.
- Project titled "*Nanofilled natural ester impregnated surface modified pressboards for suppressing partial discharges in transformers*" by DST-SERB (Govt. of India) – 2022-2025  
**Co-PI, Project value INR 5073024/-**

## **AWARDS AND RECOGNITION**

- Reviewer – IEEE Transactions on DEI, IET Science, Measurement & Technology and The Journal of Engineering.
- IEEE Student Travel Grant to visit San Francisco, New Jersey, USA and Sydney Australia.
- Presented my research work at various International conferences are,
  1. IEEE-ICOPS on May, 2017, at Seton Hall University, Atlantic City, New Jersey, USA.
  2. IEEE-IPMHVC on May, 2016, at Stanford Linear Accelerator Centre, SFO, California, USA
  3. IEEE-ICPADM on June, 2015, at University of New South Wales, Sydney, Australia,
  4. CPRI-ICHVET on Jan 2015, at Ultra High Voltage Laboratory, CPRI, Hyderabad, India.
- IIT Mandi Research affairs secretary and member of student welfare and discipline committee in the academic year 2015-16.

## **COMPUTER SKILLS**

- Languages : C and C++.
- Documentation : MS-Office (Word, Excel, Power Point, VISIO), Latex.
- Computation : ANSOFT, COMSOL Multi physics, MATLAB

## PROJECT WORK

- **PhD Thesis title:** “Experimental Investigations of Surface Discharge Phenomena at Solid-Liquid Interface of Power Transformer Insulation System”, (Supervisor(s) - Dr.G.B. Kumbhar, IIT Roorkee and Prof Ramesh Oruganti, IIT Mandi).
- **M.E. Project title:** “Application of High Voltage Pulses for preserving Liquid Foods-Tomato juice” (Supervisor: Dr. V. Gowrisree)

## PERSONAL DETAILS

- Date of birth : 04/04/1986
- Marital status : Married
- Languages known : Tamil, English, Telugu and Hindi.

## RESEARCH PUBLICATIONS

1. **C. Thirumurugan**, G.B. Kumbhar, Ramesh Oruganti, “Effects of Impurities on Surface Discharges at Synthetic Ester/ Cellulose board,” **IEEE Transactions on Dielectrics and Electrical Insulation**, vol.26, no.1, pp.64-71, Feb. 2019. [PDF](#)
2. **C. Thirumurugan**, G. B. Kumbhar, Ramesh Oruganti, “Surface Discharge Characteristics of Different Solid-Liquid Interface,” **IEEE Transactions on Plasma Science**, vol. 47, no. 11, pp. 5013-5022, Nov. 2019. [PDF](#)
3. **C. Thirumurugan**, G.B. Kumbhar, Ramesh Oruganti, “Surface Discharge Phenomena at Oil/Pressboard Interface: An Overview from Experimental Investigations Perspective,” **IEEE Transactions on Dielectrics and Electrical Insulation** - Under review.

## REFERENCES

1. **Dr. Ramesh Oruganti**, Emeritus Professor, IIT Mandi,  
School of Computing and Electrical Engineering, Indian Institute of Technology Mandi,  
Himachal Pradesh-175005, INDIA. Phone (Office): +91-1905-237993, e-mail: [ramesho@iitmandi.ac.in](mailto:ramesho@iitmandi.ac.in)
2. **Dr. G.B. Kumbhar**, Associate Professor, IIT Roorkee,  
Department of Electrical Engineering, Indian Institute of Technology Roorkee,  
Uttarakhand-247667, INDIA, Phone (O): +91-1332-284752, e-mail: [gkumbfee@iitr.ac.in](mailto:gkumbfee@iitr.ac.in)
3. **Dr. S.V. Kulkarni**, Professor, IIT Bombay,  
Department of Electrical Engineering, Indian Institute of Technology Bombay,  
Mumbai-400076, INDIA. Phone (O): +91-22-25767430, e-mail: [svk@ee.iitb.ac.in](mailto:svk@ee.iitb.ac.in).

**Place:** Vellore,

**Date:** 02-03-2022.

(Dr.THIRUMURUGAN C)