

## CURRICULUM VITAE

**Dr. KUMARA**

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### **Permanent Address:**

S/o Late Thanaiah, Neelakantanahalli, Honganur Post, Channapatna, Ramanagar Karnataka 562160.

### **Residential Address:**

**F2, Silverwaves Prakruthi Apartment, Kengeri Satellite town ,Bengaluru-560060**

### **1. Qualification:**

<b>DEGREE</b>	<b>SPECIALISATION</b>	<b>UNIVERSITY/ COLLEGE</b>	<b>MONTH&amp; YEAR OF PASSING</b>
B. E	Mechanical Engineering	NITK, Surathkal	August,2000
M.Tech.	Thermal Engineering	Jain University/ SBMJCE	August,2012
Ph.D.	Solar Desalination	NITK, Surathkal	July , 2022

Presently working at Dr. Ambedkar Institute of Technology, Bangalore as an assistant Professor at Aeronautical Engineering Department since 29.11,2023

## 2. Work Experience (Industrial +Teaching):

Employer	Position held and duration	Period
National Aerospace Laboratory (NAL), Bengaluru.	Graduate Trainee -1Year	27/12/2000 to 26/12/2001
Shri Guru Springs and Toolings, Bengaluru.	QC-Engineer-4 years	10/02/2006 to 05/01/2010
Global Academy of Technology (GAT), Bengaluru.	Assistant professor-3years	02/01/2012 to 24/12/2014
Bule Hora University, Ethiopia	Assistant professor-7 years and 9 months	25/10/2015 to 30/06/2023

## 3. SUBJECTS TAUGHT:

- I.C. engines, Gas Turbines
- Numerical Methods
- Refrigeration and air-conditioning
- Instrumentation and Experimental Methods
- Elements of mechanical engineering
- Thermodynamics
- Heat transfer, RAC
- Computer Aided Engineering Drawing
- Energy engineering

## 4. AREA OF INTEREST:

- Desalination
- Aeronautical
- Renewable energy

**B.E** project: Parametric study of regenerative Rankine cycle using Artificial Neural Network (ANN)  
Advisor: Prof. Murugesan.K, Ph.D.

**M.Tech** project: Thermal analysis of Chevron using piezoelectric material  
Advisor: Dr. Raja S (Principal senior scientist, Structural Technologies Division, NAL Bangalore).

**Ph.D.:** Solar energy-based desalination system using humidification dehumidification process.  
Advisor: Prof. Veershetty G, Ph.D.

## 5. PUBLICATIONS/CONFERENCES/WORKSHOP:

1. Thanaiah, K., Gumtapure, V., and Mitiku, G. (2021). "Experimental analysis on humidification-dehumidification desalination system using different packing materials with baffle plates." *Therm. Sci. Eng. Prog.*, 22(May 2021), 100831.SCIE, **Elsevier** Publication.
  2. Kumara, Veer Shetty G and Ashebir D H (March 2020). "Experimental study on desalination system using humidification- dehumidification process with baffles in the dehumidifier", *JESTEC*, V15, I2 March 2020.
  3. Thanaiah, K., and City, B. (2021). "Journal of Scholastic Engineering Science and Management ' Finite Element Structural Analysis of a Pit Viper 235 Main Frame .'1(3), 19–31.**Elsevier**
  4. Kumara and Veer Shetty G (2018). "Humidification Dehumidification Desalination Using Solar Collectors." *IOP Conf. Series: Materials Science and Engineering*376 (2018) 012025,1-8.
  - 5.Kiran sharakapur,Kthanaiah (2021) "Effect of crump rubber on the solid particle erosion response of epoxy composites" *Applied Polimer Science,Wiley Publication.*
  6. Rudramurthy BV,Kumara Thanaih and Veershetty G ,Experimental investigation of shellac wax as potential bio-phase change material for medium temperature solar thermal energy storage applications, *Solar Energy*, May 2021. **Elsevier**.
  - 7.Thanaiah, K., Gumtapure, V., and Mitiku, G. (2021). "Thermoeconomic Analysis Of Humidification-Dehumidification Desalination System Using Solar Energy." *Therm. Sci. Eng. Prog.*, 22(Jan. 2023), 100831. SCIE, **Elsevier** Publication. (under Review).
- National level ISTE Workshop on Engineering Thermodynamics courses by IIT Bombay at BMS college of Engineering. Bangalore. (10 days workshop ,2012)
  - Two-day workshop on Finite Element Methods and practical stress analysis at New Horizon College of Engineering, Bangalore (2011).

### ✓ **Achievement/Awards:**

- Post graduate scholarship for professional courses by UGC central government India. (2010-2012)
- Selected for pursuing Ph.D. at NITK, Surathkal under MHRD scholarship

✓ **Community Service:**

1. Contribution for Public Library Establishment in Uruga Town, Ethiopia.
2. Contribution for covid-19 prevention.
3. E-books contributions.
4. MOU signed with SJBIT, India and BHU Ethiopia.

**Seminar Presented at College level:**

1. Assessment of Solar home unit for cooking and lighting around Bule Hora, May 2021.
2. Solar energy-based technologies, May 2020.

✓ **Research Project Executed :**

Feasibility study biomass briquettes production from organic feed stocks,2020-21.

Computer Skills: AutoCAD, Solid Edge, MATLAB, Ansys.

**6. Personal Details**

Date of Birth	: 26-02-1976
Sex	: Male
Marital Status	: Married
Spouse's Name	: Sandhya Narayana
Languages Known	: English, Hindi, and Kannada
Country	: India
Passport Number	: S5608327

**References:**

1) **Dr. S Raja**

Structural Technologies Division  
NAL, Bangalore,  
Karnataka, India  
Email: raja@css.nal.res.in, +919591040760

2) **Dr. Veershetty Gumtapure**

Department of Mechanical  
NITK, Surathkal  
Karnataka, India  
Email: veersg@yahoo.co., +919591415911

DECLARATION

I hereby declare that all information furnished above is true to the best of my knowledge and belief.

12.09.2024

<https://www.linkedin.com/in/dr-kumara-thanaiaha546077a/>

(Dr. KUMARA T)