

## CURRICULUM VITAE

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District Hassan , Karnataka  
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### **Personal Information :**

Date of Birth : 03.09.1973  
Place of Birth : Haranahally, District Hassan (Karnataka)  
Father's Name : Rangaswamy H. P.  
Mother's Name : Siddamma  
Marital Status : Married  
Spouse's Name : Muktha Y.N.  
Children : One (Son)

### **Academic qualification :**

**Doctorate** **Ph. D.** from **IIT Kharagpur**

Year: 2019

#### ***Post Graduation***

M. Sc. (Engg.) by research in Mechanical Engg. from  
VTU, Belgaum, Karnataka.

Year : 2007

Specialization : Design

#### ***Under Graduation***

B. E. Mechanical Engg., University of Mysore, Hassan,  
Karnataka.

Year : 1997

Intermediate : Pre-University Board, Karnataka

Year : 1992

Matriculation : Secondary Education Board, Karnataka

Year : 1990

Awards : Quality Improvement Programme Fellowship from All  
India Council for Technical Education, New Delhi, India

**Research Experience: Total 10 years with 26 publications in the field of Design and Materials to the credit and h-index of 3.**

**Teaching Experience: Total 20 years in various designations like Lecturer, Senior Lecturer and Asst. Professor.**

**Currently working as Assistant Professor in the Department of Mechanical Engineering, B. M. S. College of Engineering, Bengaluru.**

## **List of publications**

### **A. Refereed journals**

1. **Prakash H. R**, Sachidananda1 H.K.,Gonsalvis . High profile shifting gearing using altered tooth-sum gearing, international journal of advanced engineering sciences and technologies (IJAEEST) Vol. No. 11, Issue No. 1, 001 – 007, 2012.
2. **Prakash H. R**, Sachidananda1 H.K.,Gonsalvis . And rajesh A.R. Design and development of power re-circulating Gear test-rig, CLEAR IJRET, Vol-1. Sept-Nov 11. 2012.
3. **Prakash H. R**, Sachidananda1 H.K.,Gonsalvis . Analysis of contact stress in altered tooth-sum hearing, applied mechanical engineering, Vol-1, 2012, J. Applied Mechanical Engg 2012,
4. **Prakash H. R**, Sachidananda1 H.K.,Gonsalvis . Experimental investigation of fatigue behavior of spur gear in altered tooth-sum gearing, Front. Mech. Eng. 2012, 7(3): 268–278,
5. **Prakash H. R**, S. Ram, K. Brühne, and H.-J. Fecht, (2016), Effects of silver doping on microstructure of nanostrips, tetragonality, and mechanical properties in  $\text{Ni}_{41-x}\text{Ag}_x\text{Mn}_{50}\text{Sn}_9$  ( $x \leq 2$ ) Heusler Alloys, Journal of Nanoscience and Nanotechnology, Vol. 16, p. 1–10.
6. **Prakash H. R.**, S. K. Sharma, S. Ram, and H.-J. Fecht, (2017), Hierarchical nanostructure, microstrain, and mechanical properties in Cr-doped magnetocaloric  $\text{Ni}_{50}\text{Mn}_{37-\delta}\text{Cr}_\delta\text{Sn}_{13}$ ,  $\delta \leq 2.0$ , Alloys, Current Smart Materials, Vol. 2, p. 1-25.

### **B. Conference proceedings**

1. **Prakash H. R.**, S. K. Sharma, S. Ram, and S. Chatterjee, (2016), ‘Large adiabatic temperature change in magnetoelastic transition in  $\text{Ni}_{50}\text{Mn}_{35}\text{Cr}_2\text{Sn}_{13}$  Heusler alloy of granular nanostructure’ AIP Conf. Proc., 2016, Vol. 1728, pp. 020482.
2. S. K. Sharma, **H. R. Prakash**, and S. Ram, (2016), ‘Magnetic properties in MnBi alloy of small crystallites for permanent magnet devices’ AIP Conf. Proc., Vol. 1728, pp. 020657.
3. S. K. Sharma, **H. R. Prakash**, S. Ram, and D. Pradhan, (2018), ‘Synthesis and magnetic properties of rare-earth free MnBi alloy: A high-energy hard magnetic material’ AIP Conf. Proc., Vol. 1942, pp. 130044.

### C. National/International Conferences:

1. **Prakash H. R.**, J. Gonsalvis, Altered tooth-sum gearing for higher efficiency, Presented at 14 ISME International conference, held at Delhi college of Engineering, Delhi.
2. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis, Experimental investigations of power loss in altered tooth-sum gearing, Presented at 9th ISMQC, Held at IIT, Madras.
3. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis, Altered tooth-sum gearing for high contact ratio, Presented at 6th ICIT, held at IISc, Bengaluru.
4. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis Design and development of power recirculating gear test rig, Presented at 13th International Conference on Applied Mechanics and Mechanical Engineering, held at Cairo, Egypt.
5. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis Influence of high profile shift in improving surface durability, Presented at 13th International Conference on Applied Mechanics and Mechanical Engineering, held at Cairo, Egypt, Volume 13, Page 1-14 2008,
6. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis A comparative study of power loss in altered tooth-sum gearing, Presented at National conference, held at B.M.S. College of Engineering, Bengaluru
7. **Prakash H. R.**, Gonsalvis, Four-square gear testing rig- description and possibilities, Presented at National conference, held at V.I.T., Bengaluru.
8. **Prakash H.R.**, A. A. Prasanna and S. Ram, (2014), 'Synthesis of a novel series of multiferroic  $\text{Ni}_{41-x}\text{Ag}_x\text{Mn}_{50}\text{Sn}_9$  ( $x \leq 2$ ) Heusler alloys' Proceedings of Advances in Polymeric Materials (APM), held at IISc, Bengaluru, February 20-22,.
9. **Prakash H.R.**, S. Ram and J. Arout Chenvane, (2015), 'Magnetic field dependence of successive transitions in  $\text{Ni}_{39.5}\text{Ag}_{1.5}\text{Mn}_{50}\text{Sn}_9$  Heusler alloy' International conference on nanoscience and nanotechnology (ICONN) - 2015 held at SRM University, Kattankulathur, Chennai, February 4- 6,.
10. **Prakash H.R.**, and S. Ram, (2015), 'Effect of Local strains on functional properties in  $\text{Ni}_{41-x}\text{Ag}_x\text{Mn}_{50}\text{Sn}_9$  ( $x \leq 2$ ) nanocrystallites' proceedings of Engineering & Physical Sciences held at Pondicherry, Feb 13-14.
11. **Prakash H.R.**, and S. Ram, (2015), 'Irreversible Caloric transitions in  $\text{Ni}_{41-x}\text{Ag}_x\text{Mn}_{50}\text{Sn}_9$  ( $x \leq 2$ ) Heusler alloy' proceedings of National Conference on Materials for Energy Conversion and Storage along with Workshop on Computational Techniques for Energy Materials, held at University Chennai, March 19-21.
12. **Prakash H. R.**, S. K. Sharma and S. Ram, (2016), 'Processing chromium doped  $\text{Ni}_{50}\text{Mn}_{50-y}\text{Cr}_y\text{Sn}_{13}$ ,  $y \leq 2$ , Heusler alloys of nanocrystallites', National conference on Energy materials, held at Pondicherry, Mar 12-14.
13. **Prakash H. R.**, S. K. Sharma, S. Ram and H. -J. Fecht, (2016), Synthesis of a novel series of multifunctional  $\text{Ni}_{41-x}\text{Ag}_x\text{Mn}_{50}\text{Sn}_9$  ( $x \leq 2$ ) Heusler alloys: promising magnetic cooling and sensor applications, National conference on Energy materials, held at Pondicherry, Mar 12 - 14.

14. **Prakash H. R.**, S. K. Sharma, S. Ram and H. -J. Fecht, (2016), 'A novel series of multifunctional  $\text{Ni}_{50}\text{Mn}_{37-y}\text{Cr}_y\text{Sn}_{13}$  ( $y \leq 2.0$ ) Heusler alloys: promising magnetic cooling applications', International conference, EMRS – 2016, Lille, France, May 2 – 5.
15. **Prakash H. R.**, S. K. Sharma and S. Ram, (2016), 'Effect of a partial Ag/Cr substitution on mechanical properties in Heusler alloys', International conference ICAMA- 2016, held at 2016 BMS College of Engineering, Bengaluru, June 16-17.
16. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis, A comparative study of power loss in altered tooth-sum gearing, Presented at National conference, held at B.M.S. College of Engineering, Bengaluru.
17. **Prakash H. R.**, Sachidananda H.K., J. Gonsalvis, Four-square gear testing rig-description and possibilities, Presented at National conference, held at V.I.T., Bengaluru