

## FACULTY DETAILS

### Faculty Name:

**DR. RAMESHA H**

**Associate Professor, Department of Mechanical Engineering**

### Education Details:

- **PhD (Mechanical Engineering)**

### Contact Details

**Email ID:** hmramesh@gmail.com

**Google Scholar ID:** [https://scholar.google.com/citations/user=UV\\_PAUEAAAAJ&hl](https://scholar.google.com/citations/user=UV_PAUEAAAAJ&hl)

### Professional Experience

#### Teaching Experience:

- **Working as Associate Professor, Department of Mechanical Engineering, AIT from July 2023 to till date.**
- **Worked as Assistant Professor, Department of Mechanical Engineering, SIET, Tumakuru from July 2012 to June 2023.**
- **Worked as Quality Engineer, Autoplast, Tumakuru from July 2005 to July 2006.**

**Research Experience: 3 Year**

### Publication Details:

#### SCOPUS INDEXED JOURNALS:

- R Hanumantharayappa, S Dasappa, G K Ananda (2020) Thermal Analysis on Heat Sink made up of Aluminum Alloys with Copper Compositions, Journal of Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2020.10.292>
- R Hanumantharayappa, S Dasappa, G K Ananda (2020) Experimental Investigation on Heat Sink of Al2024 Alloys with Copper Composites, Journal of Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2020.10.283>
- R Hanumantharayappa, S Dasappa, G K Ananda (2020) Computational Modeling Analysis of Heat Sink made up of Al-Cu Composites Alloys, Journal of Materials Today: Proceedings. (Accepted)
- Ananda Gowda, S Dasappa, R Hanumantharayappa (2020) Theoretical Prediction of Solar Heat Flux Intensity on Parabolic Trough Collector Systems, Journal of Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2020.02.484>
- Ananda Gowda, S Dasappa, R Hanumantharayappa (2020) Effect of Reduced Graphene Oxide as Nanofluid on Solar Parabolic Trough Collector Receiver Model, Journal of Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2019.11.234>
- Ananda Gowda, S Dasappa, R Hanumantharayappa (2020) Thermal Performance on Parabolic Solar Trough Collector by using rGO/water Nanofluid, International Journal of Recent Technology & Engineering. <https://doi.org/10.35940/ijrte.F7462.038620>
- Sridhar G, G K Ananda, Ramesha H (2019) Thermal Optimization Solution for AlSi12Mg with Influence of Magnesium Oxide Particulate Composites, Journal of Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2019.07.191>

#### INTERNATIONAL CONFERENCES:

- Ananda G K, Ramesha H, Shivappa D (2015) Numerical Investigation of Thermal Conductivity on Al-12Si/MgOp Composites, International Journals of Emerging Trends in Engineering Research, World Academy of Research of Science and Engineering, 3(11), 122-126.
- Ananda G K, Ramesha H (2013) Study the Thermal Characteristics of LM13/MgOp Composites, International Journals on Advanced Materials Manufacturing & Characterization, 3(1), 439-432.
- Ananda G K, Ramesha H (2013) Theoretical analysis of coefficient of thermal expansion by Thermo-mechanical Analyser of LM13/MgOp Composites, International Journals on Engineering Research Technology, 2(6), 2245-2249.
- Ramesha H, Manu S (2012) Theoretical Model for Condenser of Miniature LiBr-H<sub>2</sub>O Vapor Absorption Refrigeration System, International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622, Vol. 2, Issue 1, Jan-Feb 2012

### **Roles and Responsibility**

- NBA Criteria 3 and 5 Coordinator,
- NAAC documentation,
- Reviewer, Journal of Renewable Energy (Elsevier Publications)
- Reviewer, Journal of Materials Today: Proceedings (Elsevier Publications)
- Reviewer, Conference Series: Materials Science & Engineering (IOP)
- Student Counsellor
- Semester Coordinator
- Anti-Ragging Committee member

### **Professional body membership**

- Life Member, Indian Society for Technical Education
- Student Member, American Society of Mechanical Engineering (ASME)
- Student Member, American Society on Testing Standards of Mechanical Engineering (ASTME)

### **Research Area of Interest**

- Electronics thermal management  
Optical imaging and methodology in microscale phenomena
- Solar Thermal Engineering  
Data analytics for prediction of solar generation and PV system performance