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### ➤ Areas of Research

Alternative Fuels, Bio Diesel, Refrigeration and Air Conditioning, Solar Energy, Bio Fuel, Heat Transfer, Thermal science,

### ➤ Publications details:

No. of publications National / International: **06**

### ➤ Funded Project details- (Applied )

Title : Semi Perpetual Motion of an Electric Vehicle

Reference No. : 182023012690

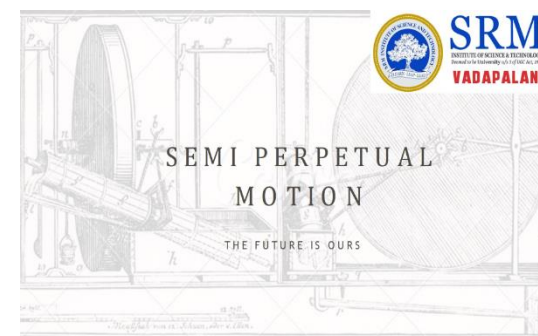
Saved Date : 20-Mar-2023

[SERB Qualified Unique Identification Document: SQUID-1964-VK-7771]

Applied Total Cost for Fund Rs : 2,04,000/-

### ➤ Guiding PhD Student: Nil.

**Google Scholar link : <https://www.researchgate.net/profile/V-Kumar-40>**





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**Google Scholar link :** [https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=9kYrOqUAAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=9kYrOqUAAAAJ)



➤ **Areas of Research**

Composite materials, Machining Optimization, Tribology, Metal Casting, Material Characterization

➤ **Publications details:**

No. of publications National / International: **03**

➤ **Membership-Professional Bodies**

Indian Society for Technical Education (ISTE)

National Institution for Quality and Reliability (NIQR)

Indian Science Congress (ISC)





**SRM**  
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**VADAPALANI**

**Dr. P. Haja Syeddu Masooth, B.E, M.E, Ph.D.,**  
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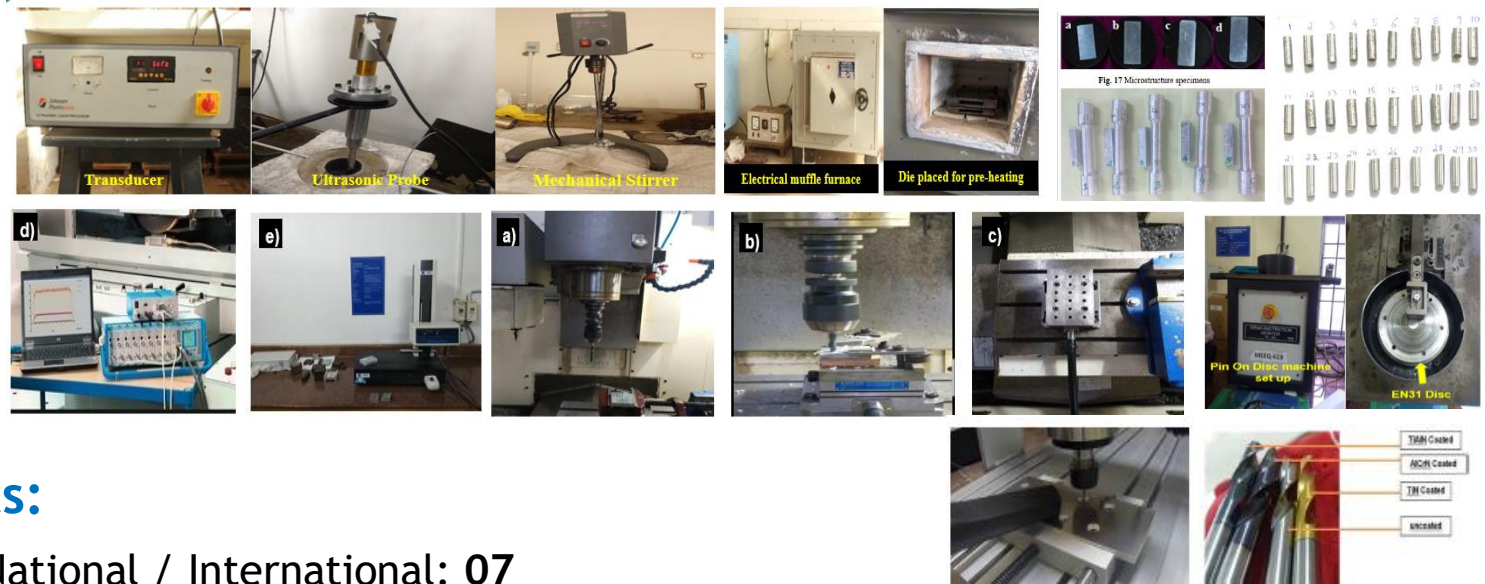


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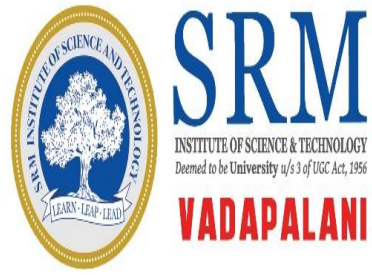
## Areas of Research

- Mechanical Characterisation of Metal Matrix Nano Composites
- Machining parametric optimization using Taguchi's method / ANOVA / Artificial Neural Network
- Surface coatings
- Powder metallurgy



## Publications details:

- No. of publications National / International: 07



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**VADAPALANI**

**Dr. M.Kamatchi Hariharan M.E.,Ph.D.,**  
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Google Scholar

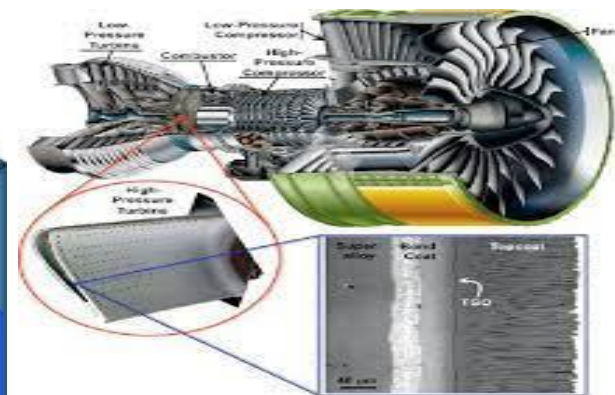
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## Areas of Research

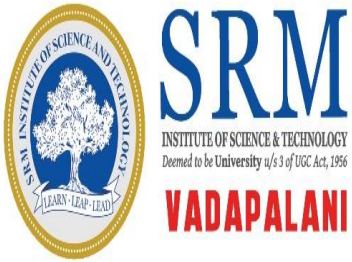
- High Temperature Corrosion Studies, Thermal Barrier Coatings with Rare Earth Elements, Nickel Based Superalloy's Applications.
- Optimization Studies with Machining of Different Materials - Using Minitab

### Publication details:

- No. of publications National / International: 15







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[https://scholar.google.com/citations?view\\_op=new\\_articles&hl=en&imq=Umapat](https://scholar.google.com/citations?view_op=new_articles&hl=en&imq=Umapat)

## Areas of Research

➤ Material Science, Advanced Manufacturing Technology, Aero space, Biomedical Engineering

### Consultancy Project details:

**New Design to reduce oil leakage in the plunger area of semi-automatic injection moulding machine**

**Software Used: Fusion 360**

### Findings & Solution

Fusion 360 software is used to create a novel design to minimise oil leaks around the plunger in semi-automatic injection moulding machine. It has been found that the contact surfaces of the oil seal ring are being negatively impacted by the increased internal pressure that is developing inside of the semi-Automatic Injection Moulding Machine.

