



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956  
**VADAPALANI**

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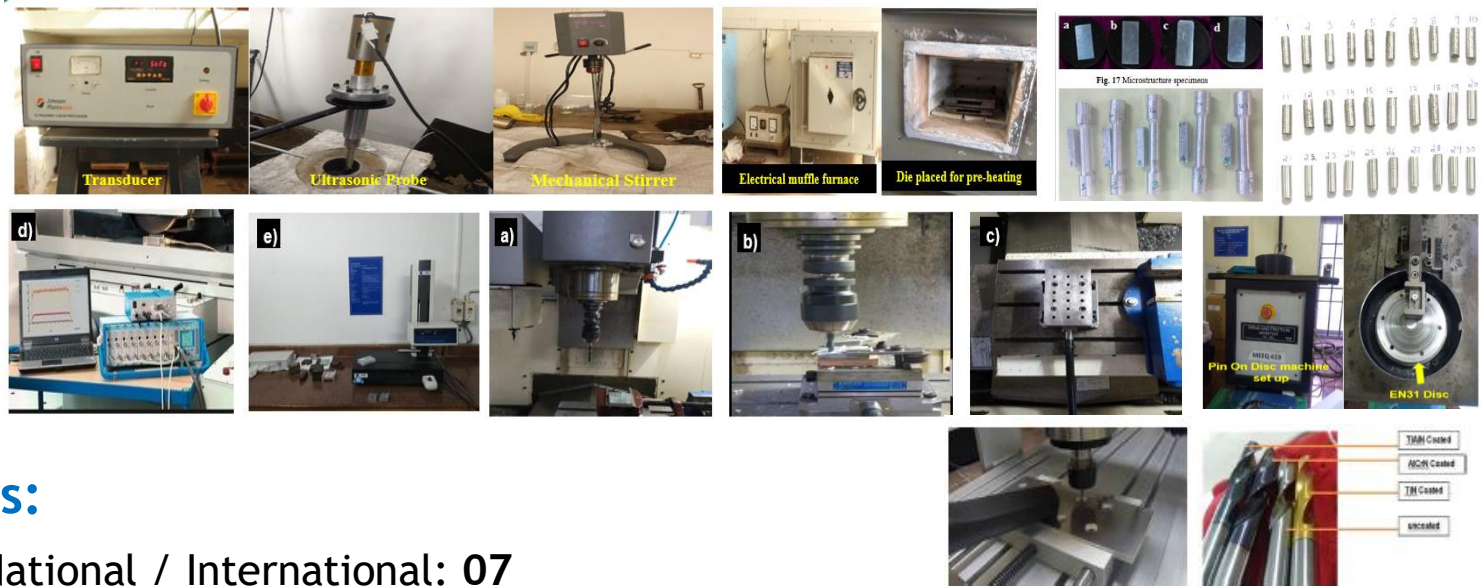


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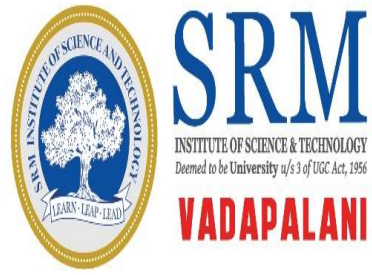
## Areas of Research

- 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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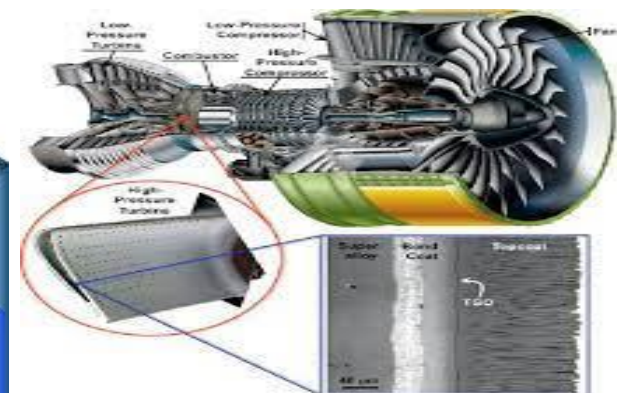
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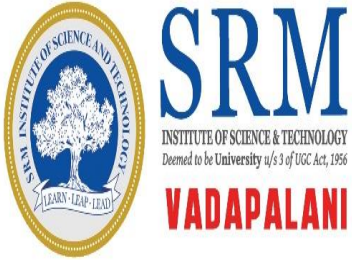
## Areas of Research

- 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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## 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.

