

**Office of Dean Research and Innovation**  
&  
**Department of Mechanical, Mechatronics and Automobile Engg.**

**Report on**  
**Seminar on “Newer Material Development -Research Funding Opportunities” -**  
**Knowledge Sharing Session”**

**About the Session**

The Office Dean of Research and Innovation and the Department of Mechanical, Mechatronics & Automobile Engineering organized a **Knowledge Sharing Session** on **Newer Material Development -Research Funding Opportunities** for the benefit of the Faculty members of MCET. The session details are given below for your kind reference.

<b>S.No</b>	<b>Name of the Resource Person</b>	<b>Topic</b>	<b>Date &amp;Time</b>	<b>Venue</b>	<b>No of Participants</b>
1	Dr. Govindaraju M. Associate Professor, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore	"Newer Material Development - Research Funding Opportunities.	03.02.2024 & 2.00PM	Mechanical Engineering Conference Hall	18

Dr. Rama Thirumurugan, HoD of mechanical delivered the Welcome address and welcomed the participants of the **Knowledge Sharing Session**. He briefed the department achievement in Journal Publication, Patent Publication and grants for the last 5 years and insists the faculty members to focus on research that will give them bright future. Dr.D.Nathan, Associate professor delivered the chief guest's introduction. He wishes everyone to utilize this session to its fullest potential and encouraged them to apply for the funding in the upcoming year.

**The sessions covered a wide range of topics related to intellectual property rights, including:**

**Agenda:**

1. Introduction to Newer Material Development
2. Current Trends and Challenges
3. Tips for Successful Grant Applications
4. Q&A Session

First of all, chief guest Welcomed the everyone, to seminar on "Newer Material Development - Research Funding Opportunities." In this session, he discussed the exciting realm of material science, exploring the latest advancements, and discussing avenues for securing funding to support innovative research endeavours materials field.

## **1. Introduction to Newer Material Development:**

Discussed the newer material development includes the exploration and creation of advanced materials with properties manufactured to specific applications with characteristics such as enhanced strength, conductivity, flexibility, or environmental sustainability. Examples include nanomaterials, biomaterials, composites, and smart materials, among others.

## **2. Current Trends and Challenges:**

### **a. Trends:**

- Integration of nanotechnology and advanced manufacturing techniques.
- Sustainable materials development for environmental conservation.
- Focus on functional materials for electronics, healthcare, and energy sectors.

### **b. Challenges:**

- Cost-effectiveness and scalability of production methods.
- Understanding and controlling material properties at the nanoscale.
- Addressing environmental and health concerns associated with new materials.

## **3. Research Funding Opportunities in materials**

- Department of Science and Technology (DST)
- Council of Scientific and Industrial Research (CSIR)
- Department of Atomic Energy (DAE)
- Department of Biotechnology (DBT)
- Department of Heavy Industry (DHI)
- Indian Council of Scientific and Industrial Research (ICSIR)
- Department of Scientific and Industrial Research (DSIR)
- Defence Research and Development Organization (DRDO)

## **4. Tips for Successful Grant Applications:**

**a. Clear Objectives:** Define your research goals and objectives concisely.

**b. Strong Research Plan:** Outline a detailed methodology and timeline for your proposed project.

**c. Significance:** Highlight the potential impact and relevance of your research to the field.

**d. Collaborations:** Emphasize any existing partnerships or interdisciplinary collaborations.

**e. Budget Justification:** Provide a detailed budget breakdown and justify expenses.

**f. Proposal Review:** Seek feedback from colleagues or mentors to refine your proposal before submission.

## **5. Q&A Session:**

### **1. What are some key trends driving the development of newer materials?**

Several trends are influencing the development of newer materials. Integration of nanotechnology and advanced manufacturing techniques, sustainable materials development for environmental conservation, and the focus on functional materials for electronics, healthcare, and energy sectors are some prominent ones.

### **2. What are the main challenges researchers face in securing funding for material science projects?**

Cost-effectiveness and scalability of production methods, understanding and controlling material properties at the nanoscale, and addressing environmental and health concerns associated with new materials are some of the challenges researchers may encounter in securing funding for material science projects.

### **3. What advice do you have for researchers writing grant proposals for material science projects?**

It's essential to define clear objectives, outline a strong research plan with a detailed methodology and timeline, highlight the significance of the research, emphasize collaborations, provide a detailed budget justification, and seek feedback from colleagues or mentors to refine the proposal before submission.

## Attendance Sheet of Participants

**Dr. Mahalingam College of Engineering and Technology, Pollachi - 642 003**  
(An Autonomous Institution)

Office of Dean Research and Innovation  
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Seminar on "Newer Material Development -Research Funding Opportunities" -  
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Faculty Attendance Sheet

Venue: Mechanical Engg. Conference Hall

Time 02.00PM to 4.00PM

Date: 03.02.2024

S.No	Name of the faculty with Designation	Department	Signature
1.	Dr Rama Thirumogan Prof	Mech	
2.	Dr. D. Nathan	Mech	
3.	Dr. S. AYYAPPAN, ASP	Mech.	
4.	Dr. K. Hanthuan (ASP)	Mech	
5.	Dr. S. Madhvasudhanan, AP (SP)	Mech	
6.	Dr. T. Jaganath, AP (SP)	Mech	
7.	K. VISAYAKANNAN AP (SP)	Mech	
8.	Sreejith. S. Nair	MCEET	
9.	Samuel Swamidoss	Mech	
10.	Bala Murali N	Mech	
11.	S. Nachimuthu	Mech	
12.	S.V. GURUPRASAD / AP	Mech	
13.	J. VENKATESH / AP	Mech	
14.	T. DINDRAN KUMAR / AP	Mech	
15.	S. LOGESH.	M.E CAD/CM	
16.	G. KATHIRESH KUMAR	M.E-CAD/CM	
17.	S. Anasakumar	Mech	
18.	Dr. N. Shanmuga Sundaram	Mech	

S.V. Guruprasad  
  
Co-ordinator

HOD/c/ Mech

## Photos Taken During Workshop



*S. Prakash*

Dean R&I

*[Signature]*

Principal

--Sd--  
Secretary