

VINAYAKA MISSION'S RESEARCH FOUNDATION  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
AVIT/MECH/475

CIRCULAR

Ref No: 475/SEMINAR/AVIT/2021-2022

Date: 18.04.2022

The Department of Mechanical Engineering is proposed to conduct **Seminar on Powering the future through Nano characterization** on 20.4.2022. The students and faculty members are requested to register and attend the program compulsorily.



**HOD**

Circulated to:

Mechanical & Auto Dept

IV/III/II Year Students & Faculty members



**VINAYAKA MISSION'S  
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**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering  
&

Indian Institute of Metals  
Kalpakkam Chapter



*Cordially invites you all for the Seminar on*

# Powering the future through Nano Characterization

*Expert Speaker*

**Dr. P. Parameswaran**

Formerly Scientific Officer/H,  
Head, Physical Metallurgy Division, IGCAR, Kalpakkam.

*In the presence of*

**Dr. G. Selvakumar**  
Principal

**Dr. L. Prabhu**  
HoD, Mech & VP (Admin.)

**Event Coordinator : Mr. A. Senthilkumar,** AP (Gr-II), Mech



on 20-04-2022 @ 11.00 a.m. | Digital Class Room 2



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## DEPARTMENT OF MECHANICAL ENGINEERING

### INDIAN INSTITUTE OF METALS (IIM) – KALPAKKAM CHAPTER

#### Report – Seminar on Powering the future through Nano characterization

20<sup>th</sup> April 2022

**Resource person:** Dr.P. Parameswaran,  
Formerly Scientific Officer/H,  
Head, Physical Metallurgy Division, IGCAR, Kalpakkam.

**Participants :** 50 Students

Department of Mechanical Engineering in association with Indian institute of metals (IIM) Kalpakkam chapter organized a seminar on the topic “**Powering the future through Nano characterization**” on **20<sup>th</sup> April 2022**.

#### The topics covered in seminar

- Introduction to nanomaterials.
- Different types of nanomaterials (i) Inorganic based nanomaterials (ii) Carbon based nanomaterials (iii) Organic based nanomaterials and (iv) Composite based nanomaterials.
- Various methods to synthesis of nanomaterials.
- Potential impact of nanomaterials in research related to mechanical field.
- Experimental Procedures and Characterization Techniques - XRD analysis, UV-Vis spectroscopy, Field Emission Scanning Electron Microscopy, Energy Dispersive X-Ray Spectroscopy, Photoluminescence spectroscopy, SEM and TEM analysis.

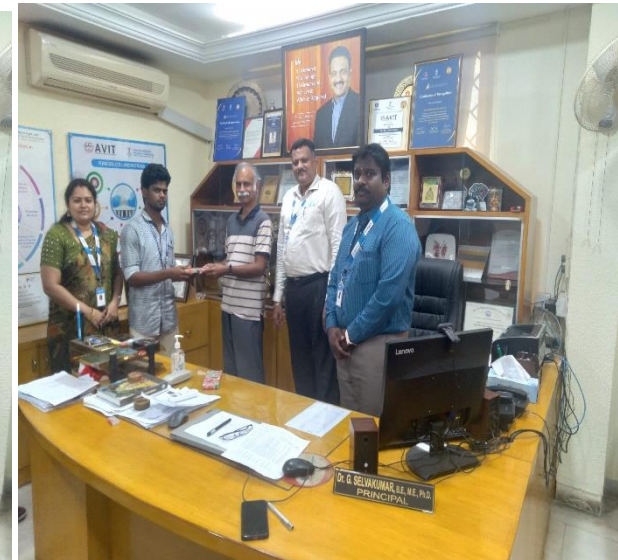
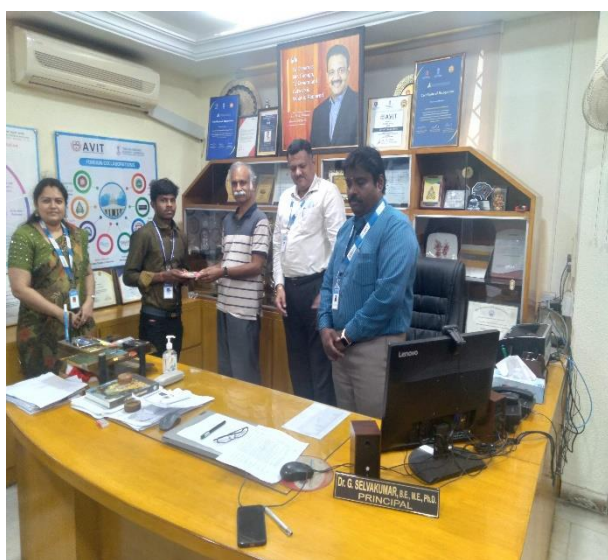
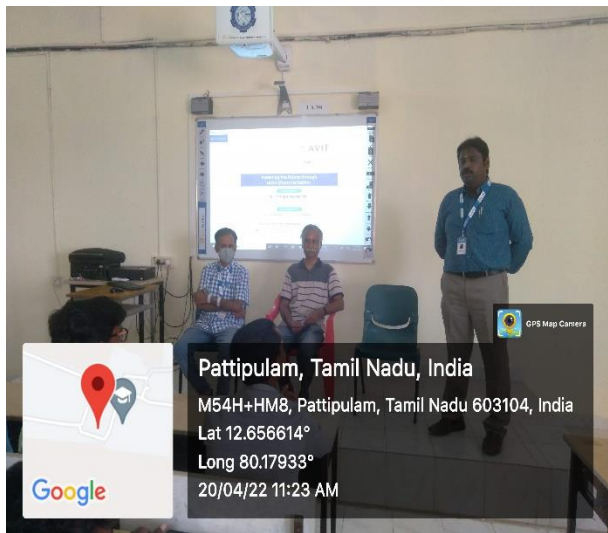
#### Seminar Outcome

- Students understood the importance of different nanomaterials.
- Preparation process and characterization methods of different nanomaterials.
- Learned the properties of different nanomaterials.
- Importance of considering the nanoscale particles.

#### Students Suggestion

- To conduct practical session in preparation and synthesis of nanomaterials.
- To arrange internship or to do projects in IGCAR Kalpakkam.

The seminar was coordinated by Mr.A. Senthil kumar, Assistant Professor (Gr-II) and Dr.L.Prabhu, Vice principal (Admin) & Hod mechanical delivered the welcome address. The special address was given by Dr.M.Thiruchitrabalam, Professor, Mechanical engineering department. The chief guest introduction was given by Mr.Yugendran second year mechanical engineering student. After completing the seminar the quiz program was conducted and attractive prizes was given to winners.



## Seminar on Powering the future through Nano characterization – Participants List

SI.No	Name of the participant	Register No	Year
1.	M.pavan	3441910520	III
2.	Naushad Alam	3441910526	III
3.	Nadeem alam	3441910525	III
4.	Naveenkumar G	3442120509	II
5.	VIKASH KUMAR SINGH	3441910543	III
6.	Balaji. P	3442120502	II
7.	VIJAYAKUMAR.A	3442120522	II
8.	Amal s	3442155501	III
9.	RAHUL KUMAR	3441910529	III
10.	Jithin Y Oommen	3442155503	III
11.	GOBIND MAURYA	3441910515	III
12.	Nirmal Kumar.M	3442120510	II
13.	B.SUGUMAR	3442120516	II
14.	Saranraj.p	3442010514	II
15.	MD ABDULLAH KHAN	3441910522	III
16.	Ranjan kumar mandal	3442010512	II
17.	Yugendran. S	3442120523	II
18.	Tharunkumar S	3442010515	II
19.	Rishik chandran	3442157552	IV
20.	Chandan kumar	3443010506	II
21.	Chandan kumar	3442010506	II
22.	Mohamed Riyas khan	3442120508	II
23.	Udhayam	3442010516	II
24.	P.GOVARATHAN	3442120505	II
25.	Irshad Ansari	3441910517	III
26.	Ponnarasu. S	3442010511	II
27.	MUHAMMED ALTHAF	3442155504	III
28.	MD JAFAR ALAM	3441910523	III
29.	Rakesh Kumar	3441910532	III
30.	MADHANRAJ L	3442120506	II
31.	Prabhakaran D	3441810510	IV
32.	M.Rakesh	3442020503	III
33.	KOLLIMARLA NAGASAI	3441953512	IV
34.	M. Sriram	3442120515	II
35.	Vignesh R	3442010518	II
36.	Ashish Kumar	3441910506	III
37.	V vignesh	3442120521	II
38.	gokul	3442120504	II
39.	HRISHIKESH.N.R	3442055513	IV
40.	A.VASEEM RAHMAN	3442120519	II
41.	ABHIMANYU SINGH	3442010501	II
42.	yeddula deekeshwarreddy	3442010520	II
43.	SANJAYKRISHNAN K	3442120511	II
44.	Vasanthraj. R	3442010517	II
45.	Ranjit Tiwary	3441910533	III

46.	Abhay Verma	3441910501	III
47.	Abhinandh Lal	3441910502	III
48.	S.Nithish	3442020502	III
49.	Rahul Kumar	3441910530	III
50.	Ajay kumar	3441910503	III

# Seminar on Powering the future through Nano characterization

20<sup>th</sup> April 2022 – Online feedback

Email	Name of the participant	Register No	Department	Year	Section	Whether the Guest Spoke Useful for you ?	Was the Webinar Useful for you ?	Would you like to attend any other webinars conducted by the AVIT in the future?	Any other Comments and Suggestions
panipavan64@gmail.com	pavan	3441910520	Mechanical	III	A	Yes		4 Yes Willing to attend	No
nushadalam2001@gmail.com	Naushad Alam	3441910526	Mechanical engineerin	III	A	Yes		2 Yes Willing to attend	Good
alamnadeem9065@gmail.com	Nadeem alam	3441910525	Mechanical	III	B	Nearly		5 Yes Willing to attend	Very useful
naveedme99@gmail.com	Naveenkumar G	3442120509	Mechanical	II	B	Yes		4 Yes Willing to attend	Excellent
vikashkumarsingh8576@gmail.com	VIKASH KUMAR SINGH	3441910543	Mechanical	III	A	Yes		4 Yes Willing to attend	Very good
bthala821@gmail.com	Balaji P	3442120502	Mechanical engineerin	II	A	Yes		5 Yes Willing to attend	No
vijayakumarsmart02@gmail.com	VIJAYAKUMAR A	3442120522	MECHANICAL	II	A	Yes		4 Yes Willing to attend	No
sumasureshmannady@gmail.com	Amal s	3442155501	Mechanical	III	A	Yes		5 Yes Willing to attend	No
rahulavit529@gmail.com	RAHUL KUMAR	3441910529	BE MECHANICAL EN	III	A	Yes		5 Yes Willing to attend	Very good useful for me
jithinoommen656@gmail.com	Jithin Y Oommen	3442155503	Mechanical	III	A	Yes		4 Yes Willing to attend	No sir
gobindmaurya74@gmail.com	GOBIND MAURYA	3441910515	Be mechanical	III	A	Yes		4 Yes Willing to attend	Good
nirmalkumar8784@gmail.com	Nirmal Kumar M	3442120510	Mechanical	II	A	Yes		3 Yes Willing to attend	No
bsugumar18@gmail.com	B.SUGUMAR	3442120516	MECHANICAL	II	B	Yes		5 Yes Willing to attend	Very nice
saranrajsaranya96321@gmail.com	Saranraj p	3442010514	Mechanical engineerin	II	A	Yes		5 Yes Willing to attend	Very interesting class
mdabdullahkhan6551@gmail.com	MD ABDULLAH KHAN	3441910522	Mechanical	III	A	Yes		5 Yes Willing to attend	Good knowledge acquire
ranjankmandal0@gmail.com	Ranjan kumar mandal	3442010512	Mechanical engineerin	II	D	Yes		4 Yes Willing to attend	Informative
Yugendran3621@gmail.com	Yugendran S	3442120523	Mechanical	II	B	Yes		4 Yes Willing to attend	No
tharunkumar888555@gmail.com	Tharunkumar S	3442010515	Mech	II	A	Yes		5 Yes Willing to attend	The webinar on topic nano materials for ene
rishikchandran@gmail.com	Rishik chandran	3442157552	Mechanical	IV	A	Yes		5 Yes Willing to attend	Good
ck9822838@gmail.com	Chandan kumar	3443010506	Mechanical	II	D	Yes		4 Yes Willing to attend	No comments.
ck9822838@gmail.com	Chandan kumar	3442010506	Mechanical	II	D	Yes		4 Yes Willing to attend	Its so useful, and i would like to attend future
mhammedfazzan123@gmail.com	Mhammed Fazzan	3442120508	Mechanical	II	A	Yes		4 Yes Willing to attend	Good