



## DEPARTMENT OF PHARMACEUTICAL ENGINEERING REPORT INVITED TALK



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



Cordially invites you all for the Seminar on  
**"Introduction to Nanoparticle Sizing  
and Surface Potential Charge  
Measurement Using Malvern Instruments"**



*Resource Person*

**Mr. Shakhivel Ramanathan**

Assistant Business Manager,  
Aimil - Malvern Panalytical Ltd,  
Dr.VSI Industrial Estate, Thiruvanniyur



14. 08. 2024

10:30 AM



New Smart  
Class Room

Organized by  
**Department of Pharmaceutical  
Engineering**



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
Deemed to be University under section 3 of the UGC Act 1956

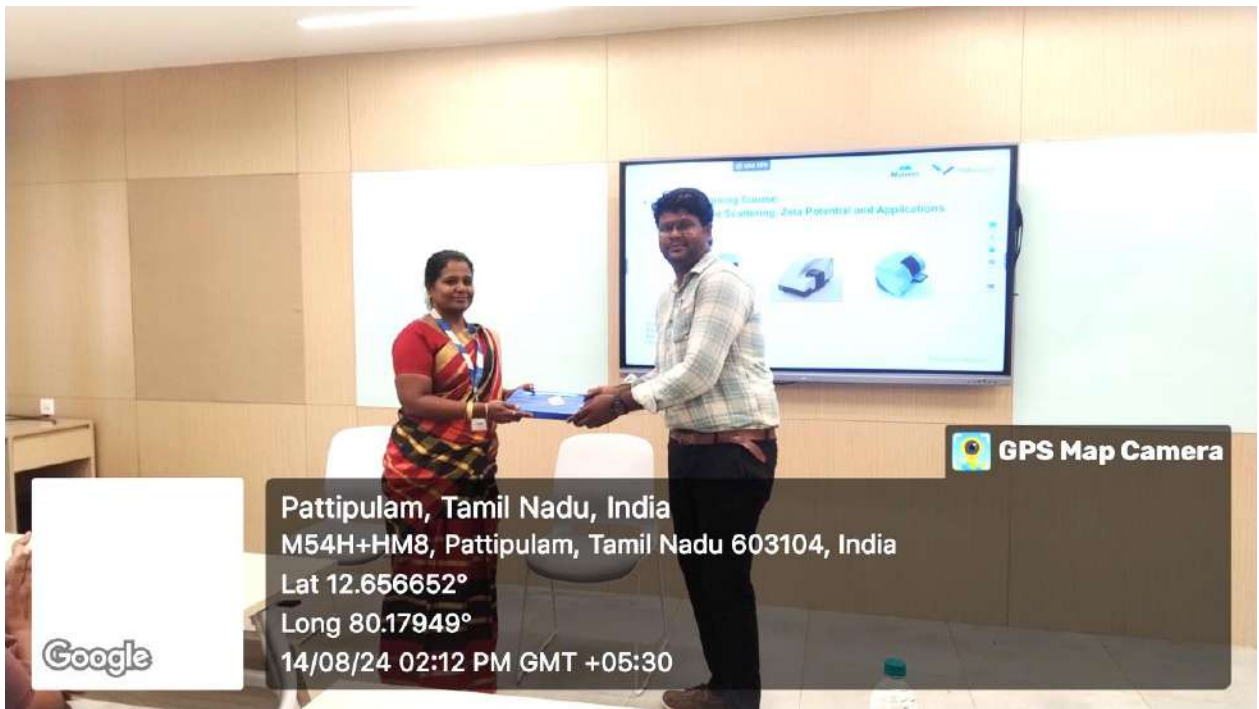


The Department of Pharmaceutical Engineering hosted a conference with the theme “Introduction to Nanoparticle Sizing and Surface Potential Charge Measurement using Malvern Instruments” on 14/08/2024 at AVIT. The purpose of the talk is to make students' understand the importance of the nanomaterial size, potential charge, and aggregation in the pharmaceutical formulation. Dr. B. Prabasheela, Professor & Head, Department of Pharmaceutical Engineering welcomed the chief guest Mr. Shakthivel Ramanathan, Assistant Business Manager, AIMIL- Malvern Pan analytical Ltd, Chennai. The chief guest of the seminar was introduced by Ms. Rubasri, Student coordinator, Department of Pharmaceutical Engineering. The speaker discussed about Malvern Pan analytical instrument for material characterisation. After the seminar, students acquired ideas regarding the way to characterise nanomaterials using zeta sizers, measure potential charges, interpret DLS data, and prevent aggregation in nanoparticle formulations. The floor was then open for discussion and the queries were answered by the guest speaker. Dr. Rajasegaran, Assistant Professor-G II, Department of Pharmaceutical Engineering, gave a vote of gratitude to close the event.



**GUEST INTRODUCTION - Ms Rubasri, IV Year Pharmaceutical Engineering**





Pattipulam, Tamil Nadu, India  
M54H+HM8, Pattipulam, Tamil Nadu 603104, India  
Lat 12.656652°  
Long 80.17949°  
14/08/24 02:12 PM GMT +05:30

**Welcome & Honoring by Dr B Prabasheela, Professor and Head,  
Department of Pharmaceutical Engineering**

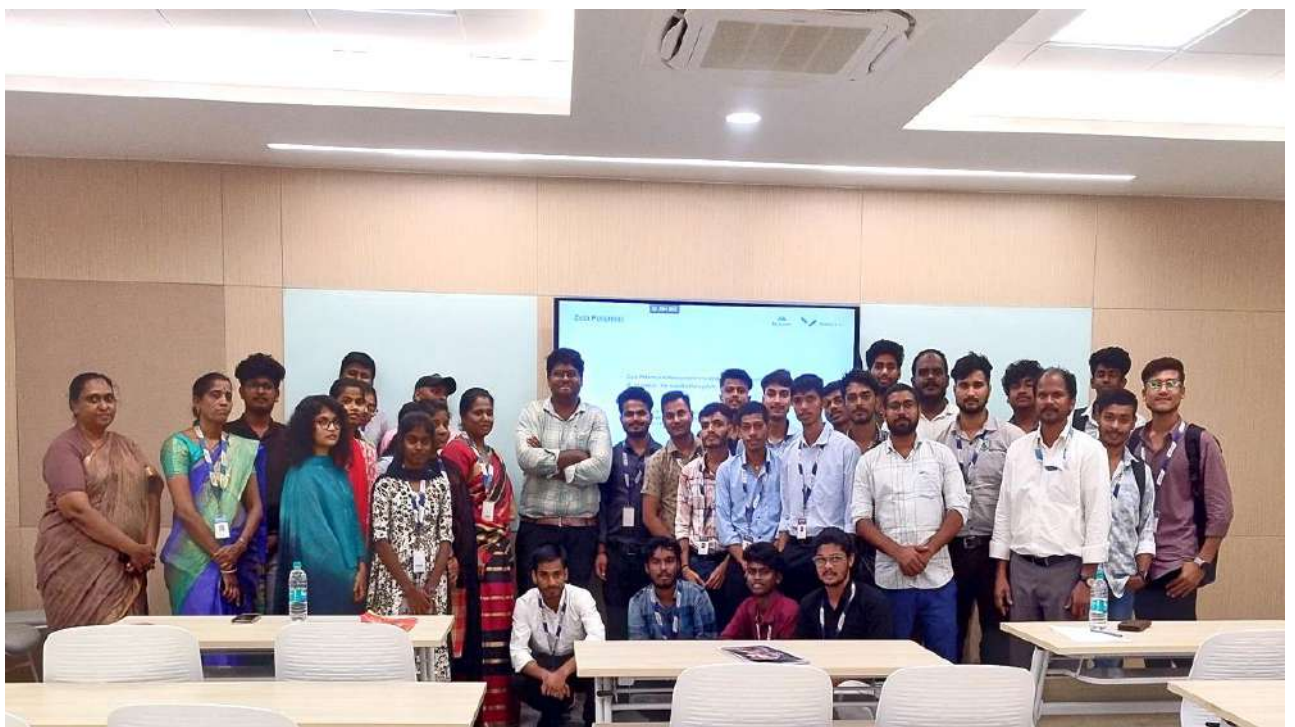


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14/08/24 02:16 PM GMT +05:30

**Presentation - Mr. Shakhivel Ranamathan, Assistant Business  
Manager, AIMIL – Malvern Pananalytical Ltd, Chennai**



**Vote of thanks - Dr Rajasegaran E, Assistant Professor (GII),  
Department of Pharmaceutical Engineering.**



**GROUP PHOTO**



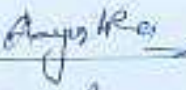






## List of Participants

### DEPARTMENT OF PHARMACEUTICAL ENGINEERING AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

SESSION ON "Introduction to Nanoparticle Sizing and Surface Potential Charge Measurement Using Malvern Instruments"

Date: 14/08/2024

S.NO	REGISTRATION NUMBER	NAME	DEPARTMENT/ YEAR	SIGNATURE
1	3692310502	K. Rohan Karthikeya	B-E Pharma/1 <sup>st</sup> nd	
2	3532310505	M. Rotikumay	BE Biomedical	
3	3692310504	Sivakasi	B-E Pharma/1 <sup>st</sup> nd	
4	3532310504	Sulthan	BME	
5	3532310503	Dipesh	BME	
6	3532310508	Shivam Kumar	BME	
7	3692110510	NITESH KUMAR	Pharma/4 <sup>th</sup>	
8	3692110514	SAYLEEDU IMRAN	Pharma Eng/4 <sup>th</sup>	
9	3692110507	LALAN KUMAR	PHARMA/4 <sup>th</sup>	
10	3692110501	Angus R	Pharma/4 <sup>th</sup>	
11	3692210501	BABU K. SANEZHA	PHARMA/3 <sup>rd</sup>	
12	369240512	M.RANJITH KUMAR	BE/Pharma/1 <sup>st</sup> nd	
13	3692110505	HARSHATH. Z	B.E Pharma / 4 <sup>th</sup> year	
14	3692110511	Nitish Kumar Pandit	BE/Pharma 1 <sup>st</sup> nd	
15	3692110509	MRD. MOJIB	B.E/Pharma 1 <sup>st</sup> nd	

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S.NO	REGISTRATION NUMBER	NAME	DEPARTMENT/ YEAR	SIGNATURE
1	3592110502	AMARJEETKUMAR	PHE. 3 <sup>rd</sup> year	<i>Amarjeet</i>
2	3692110503	ASHJEEH KUMAR	B.E. PHARMA / 10 <sup>th</sup> / 22	<i>Ashjeeh</i>
3	3692110515	SHARVIND ANAND	BE PHARMA	<i>Sharvind</i>
4	3692110506	HEMAVATHY	BE PHARMA	<i>Hemavathy</i>
5	3692110513	RUBA SRI	BE PHARMA	<i>Ruba Sri</i>
6	3692210505	Roshan Kumar	B.E. Pharma	<i>Roshan</i>
7	2692310503	Sakshi Kumari	B.E. Pharma	<i>Sakshi</i>
8	3532310506	Truthi Kurnani	B.E. Biomedical	<i>Truthi</i>
9	3532310502	R. Bavani	B.E. Biomedical	<i>R. Bavani</i>
10	3692310501	J. Abinaya	B.E. Pharma	<i>J. Abinaya</i>
11	3692210504	S.G. Rathin	B.E. Pharma	<i>S.G. Rathin</i>
12	3692310504	M. Sivakasi	B.E. Pharma	<i>M. Sivakasi</i>
13	3532310504	S. Mohan	B.E. Biomedical	<i>S. Mohan</i>