

Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Bharat Ratna Prof.CNR Rao Research Centre

Report of the

Workshop

on

"Surface and Interface Studies Using Surface Energy and Ellipsometry"

On 28th July 2022, Thursday

Time: 10.00am to 4.00pm

Objectives of the Workshop:

To enrich the researchers on the basic principles of Ellipsometer, Handling techniques, Instrumentation and applications of Ellipsometer for their research wrok.

Report of the workshop

A workshop on "Surface and Interface Studies Using Surface Energy and Ellipsometry" was organized on 28th July 2022 Thursday at 10.00 am,at Prof.CNR Rao Research Centre when Dr.S.Kowsalya, Registrar greeted the audience. The workshop was a hands-on-training workshop only for the participants of our Institution. The workshop was organized by Dr.P.Lalitha, Professor of Chemistry and Co-ordinator, Bharat Ratna Prof.C.N.R Rao Research Centre. The resource person Dr.Aruna Dhathathreyan, Research Mentor cum Consultant, delivered a lecture on "Surface and Interface Studies Using Surface Energy and Ellipsometry".

The determination of solid-surface's characteristic surface free energy using contact angle meter and the determination of film thickness and optical constants using Ellipsometer were explained with simple examples. The attendees interacted during the session. The session ended with the feedback of the participants.

List of Participants

Time stamp	Email id	Name of the Participant	Designation	Mobile.no	Class
7/25/202 2 21:41:55	rajeswari_phy@avinuty.ac.i	Dr. N S Rajeswari Assistant Professor	Department of Physics	09944403461	Faculty
7/25/202 2 22:54:04	20phphf002@avinuty.ac.in	Mehana P, Ph. D Research Scholar in Physics	Ph.D. Physics	8903842714	Ph.D Research Scholar
7/25/202 2 22:55:20	20phchf003@avinuty.ac.in	Dhivya C , Ph.D Research Scholar in Chemistry	Ph.D Chemistry	9843828909	Ph.D Research Scholar
7/26/202 2 6:54:57	tharaniphd@gmail.com	Tharani S	Research Scholar	7904627178	Ph.D Research Scholar
7/26/202 2 10:38:17	21phchf003@avinuty.ac.in	Thrisha K	Research Scholar	6383199738	Ph.D Research Scholar
7/26/202 2 10:42:00	21phchf002@avinuty.ac.in	Sindhu S, PhD in chemistry	PhD		Ph.D Research Scholar
7/27/202	20phchf005@avinuty.ac.in	Pon Nivetha A,	Research	6379849818	Ph.D Research

2 10:09:44		Research Scholar in Chemistry	Scholar		Scholar
7/27/202 2 10:11:47		Aruna P, Ph.D Research Scholar in Chemistry	Ph.D scholar in Chemistry	9965649719	Ph.D Research Scholar
7/27/202 2 11:58:17	harimathi755@gmail.com	HARINIVASHINI R, Ph.D Research Scholar in Chemistry	Ph.D Research Scholar in Chemistry	7397174997	Ph.D Research Scholar
7/27/202 2 12:14:37	20phchf006@avinuty.ac.in	Vyshnavi.S, Research Scholar, Chemistry	Research Scholar, Chemistry	9786039599	Ph.D Research Scholar
7/27/202 2 12:52:26	20phchf002@avinuty.ac.in	Mrs.Dhanya Sruthi R,PhD in Chemistry	PhD in Chemistry	9894510376	Ph.D Research Scholar
7/27/202 2 19:18:15	raajichemist@gmail.com	Rajalakshmi R, Ph.D Research Scholar in Chemistry	Ph.D Chemistry	9080637431	Ph.D Research Scholar
7/27/202 2 20:29:09	21phfnf010@avinuty.ac.in	Sonika Thoudam, Ph.D Food Science and Nutrition	PhD	7005973396	Ph.D Research Scholar
7/27/202 2 20:29:58	21phfnf008@avinuty.ac.in	A.Geetarani Devi, PhD Research Scholar in Food Science and Nutrition	PhD Scholar	07085469451	Ph.D Research Scholar
7/27/202 2 21:17:16	21phfnp002@avinuty.ac.in	Yasmin B, Ph.D Research scholar in food science and nutrition	PhD research scholar	7200113288	Ph.D Research Scholar
7/28/202 2 7:48:24	21phchf001@avinuty.ac.in	B.Nandini, Ph.D Research Scholar in Chemistry	Ph.D Research Scholar	9095815882	Ph.D Research Scholar
7/28/202 2 9:22:55	21phfnf006@avinuty.ac.in	Tilotama Sougaijam Ph.D Research Scholar in Food science and nutrition	Phd scholar	7005728279	Ph.D Research Scholar
7/28/202 2 9:33:03	20phchf004@avinuty.ac.in	Keerthana.L	Research Scholar	9600260238	Ph.D Research Scholar
7/28/202 2 9:49:25	21phphf004@avinuty.ac.in	Shamli T C	Ph.D Physics 2nd year	7639607772	Ph.D Research Scholar

No.of Participants: 18

Registration Fee: Rs.200/-

Attendance of the participants

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Colmbatore - 641 043, Tamil Nadu, India

Bharat Ratna Prof.C.N.R Rao Research Centre

Workshop on "Surface and Interface Studies Using Surface Energy and Ellipsometry"

Attendance Sheet

S.No	DATE	Name of the Participant	Class/Designation	Time (FN)	Signature
1.	28/07/22	3. Vyshnavl	Research scholar,	9.51am	ryshaul
2.	22 107 22	K . Thougha	Rs search scholar	9.5km	KTHIL
3.	38 107/22	P. Dhanya Smithi	Research Scholan	9 52 am	Ditayes dy
4.	26/04/22	Likapulana	Research Shelat		Likopskam
5.	28/07/22	SHAMLI TC	RESEARCH SHOCKE U	9.55 AM	
6.	28/01/20	P. Mehana	Rosparch Cholas	100000000000000000000000000000000000000	Papall of
	28 07 22	c. Phirya	Research Scholar	9.55 an	- 1
-	28/07/22	8. Thatani	Research V Ectoles	9.55 am	Q. Than Jr.
	28/17/22	S. Sendhu	Research Scholar	9.55 000	s. frall
C-12 17	28-7-22	B. NANDINI	Zeseaven scholar Chemistry	9-35 am	3.0.02
11.	28/7/22	A. Geetarani Der	The state of the s	The second secon	
12.	28/7/22	Tilchama Sougaijam	Research Scholar	9:55 am	Tellanger.
	28/7/22	Sonika Thousand	Resignih Scholag	. 9 !ga-	Divise IL
14.	18/4/22	Dr. N.S. Rafes wowi	THE STATE OF VICTOR	9:50m	181 W 181/10
15.	28/1/22	Aruna P	Redearch Scholar	9.55am	One of the same
16.	28.7.22	Pen Niretha A	Recarch scholar Chemistry	The second second	A. Pan Nivel
17.	28-7.22	Harinivashini R	Dozant Arkela	9.50 AH	Kelo Onli
18.	18/7/22	Gayathri 8	DLD 7 Last	7.20 Am	100
19.			Fairt tipul		04



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Bharat Ratna Prof.C.N.R Rao Research Centre

Workshop on "Surface and Interface Studies Using Surface Energy and Ellipsometry"

Attendance Sheet

S.No	DATE	Name of the Participant	Class/Designation	Time (AN)	Signature
1.	28/07/22	Vyshnavi. il	Research scholar.	1.50 pm	vyshand
2.	23.7.22	B. NANDINI	Research scholar chemistry	1.50pm	BALLI
3.	28/07/22	Tharani.S	Research Scholar	1-50pm	STEaran
4.	22110/20	Luciportiform	Research Styden Chemistoky	1.80pm	Likeothora
5.	23/07/22	C. DHIVYA	Research Scholer	1.50PM	c. 21 St.
6.	28/01/22	P. Mehana	Peroper Stolar	1.com	P. My
7.	28/07/22	T. C.Shamle	Rescauch scholar	1. 20 bu	dodate
8.	28/07/22	S. Sindhu	Research Scholar	1.50 pm	S. Linelly
9.	28/07/22	Dr.N.S. Rogesword		1,5000	News
10.	28/07/22	R. Dhanya Smithi	Research Scholar	1.50 pm	Hary Souther
11.	28/7/22	Aguna P	Research scholar	1.45PH	Papara
12.	28/7/22.	K. Thui Ma	Rejected scholar	2.55pm	K.tif
13.	28/4/22	Sonika Thone		al60pm	South
14.	28/7/22	A. quetarani Den	Research Behola		Dogeten
15.	28/7/22	Aldans Jugaip		1:50/1	Tilled
16.	28.7.22	Pen Nivetha A	Research Scholar	1.50 PM	A. Pon Wirell
17.	28.7.22	Harinwashini R	Research scholar	1.50PH	Reliabilità
18.	28/7/22	Gayathri S	Ph.D. Zoology Part Home	1.50 pm	8400
19.					

Photographs of the workshop

Welcome the gathering: Dr.P.Lalitha, Prof of Chemistry, Co-ordinator, Prof.C.N.R Rao

Research Centre





Greeting the audience: Dr.S.Kowsalya, Registrar





Master of Ceremony: Ms.Aruna P , Ph.D.Chemistry





Theory session





Practical session – Hands on Training

Batch I





Batch II





Feedback of event: as collected from the response of Google form

S.No	Responses
1.	Very useful and informative, learnt a lot
2.	Need more workshop like this
3.	It will be usefull for my future studies.
4.	Thank you for organizing this workshop.
5.	It can be used to find the refractive index and thickness of any formulations we prepare.
6.	To study the thickness and refractive index of our sample material
7.	Very useful technique
8.	Might be useful if I conduct research with surfaces.
9.	It was a useful topic. And it was well explained.
10.	Instrument related to energy
11.	It's was so helpful
12.	Very useful
13.	FESEM,XRD,3D-OPTICAL PROFILOMETRY
14.	Useful and Informative session
15.	I came to know abt nano scale
16.	It will be useful.
17.	Very useful to characterization purpose
18.	Kindly arrange to demonstrate CA measurement and Inform us when all can used for samples by us. Thank you
19.	Very informative and might be helpful
20.	Very informative and useful to probe into application
21.	It was not relevant to my essay here and subject it was interesting and useful session
22.	Informative
23.	Hope to join more workshops in the future and gain new and valuable knowledge
24.	Not related but gain new knowledge
25.	Informative
26.	Very informative session, gain basic knowledge about ellipsometry and surface interface studies using surface energy.

Invitation of the event





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Coimbatore - 641 043, Tamil Naclu, India

Workshop on

"Surface and Interface Studies Using Surface Energy and Ellipsometry"

28th JULY 2022, Thursday 10.00am-1pm

PROGRAMME

10.00- 10.05 am : Prayer

10.05- 10.15am : Welcome

> Dr.P.Lalitha Professor of Chemistry, Director R & Di/c

Avinashilingam Institute for Home Science and

Higher Education for Women

10.20-10.35am : Presidential Address

Dr.S.Kowsalya

Registrar

Avinashilingam Institute for Home Science and

Higher Education for Women

: Technical Session 10.35 - 12.35pm

> "Surface and Interface Studies Using Surface Energy and Ellipsometry"

Dr.Aruna Dhathathreyan Research Mentor cum Consultant

Avinashilingam Institute for Home Science and

Higher Education for Women

Feedback Session / Interaction

12.50pm-1.00pm : Vote of Thanks

Any 1 research scholar

Registration link: https://tinyurl.com/ex9yemww

Registration Fee: Rs.200/-Theory session: Gallery

Practical session: Prof.CNR Rao Research Centre in batches of 10

Certificate copy



Avinashilingam Institute for Home Science and Higher Education for Women (Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)Re-accredited with 'A++' Grade by NAAC.

Recognised by UGC Under Section 12 B Completors 61, 643 To USC Act 1956. Recognised by UGC Under Section 12 B Coimbatore-641 043, Tamil Nadu, India

GUIDELINES/PROFORMA FOR ORGANISING CONFERENCES, WORKSHOPS, SEMINARS, WEBINARS

Name of the applicant:

Dr.P.Lalitha

Department:

Bharat Ratna Prof. C.N.R Rao Research Centra OME SCIENCE AND HIGH

2 2 JUL 2022

1. Activity

Please Tick (√) The Appropriate Item

Workshop

Geographical Coverage

Institutional Level

3. Name of the Event

Surface and Interface Studies Using Surface Energy and

Ellipsometry

4. Date

28-7-2022

5. Venue

Bharat Ratna Prof. C.N.R Rao Research Centre

6. Name & Designation of Convenor/Organizing Secretary and Team

Convenor

:Dr.P.Lalitha, Professor of Chemistry

Dean i/c R& D, Co-ordinator, Prof.C.N.R Rao Research Centre,

Organizing

: Nishana A S, Lab technician, Prof.C.N.R Rao Research Centre.

: Gayathri S, Lab technician, Prof.C.N.R Rao Research Centre. Secretary & Team

7. Financial Assistance Required : No

8. Details of assistance sought from other sources: No

9. Details of collaborating institution, if any: Nil

10. Detailed Proposal of the Activity

- A. Aims/Objectives: To enrich the scholars on the basic principles of Ellipsometer, Handling techniques, Instrumentation and applications of Ellipsometer for their research work.
- B. Target audience/participants with expected number: Researchers / 50
- C. Details of Sessions:

Fore noon

: Theory Session

After noon

: Hands on Training

D. Expected outcome: To gain knowledge about the instrument and its applications for research field. 11. Registration fee: Yes (Rs.200/per person) Signature Vice Chancello Date: 197.1022 ' General Rules for conduct of Events For conducting International Events form should be submitted minimum 8 months prior to the date For conducting National Events form should be submitted minimum 5 months prior to the date For conducting Regional/Webinar form should be submitted minimum 20 days prior to the date

The organizers thank the authorities of the Avinashilingam Institute for Home Science and Higher Education for Women for the facilities and opportunity to conduct this event.

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