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MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
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PROGRAMME REPORT ON

Seminar-Advancement in Nano Technology of Solar Cells and nvironmental Applications

Resource Person

Dr. Mazabalo Benato

Organized by

PHYSICS- PMIST



PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY

Periyar Nagar, Vallam, Thanjavur - 613403
Tamil Nadu, INDIA

FACULTY OF SCIENCE AND HUMANITIES / PHYSICS ENDEAVORS CLUB

Department of Physics

Internal Seminar	Experts / Guest Speaker	Beneficiaries
<p>3rd International Seminar- Advancements in Nanotechnology for Solar Cells and Environmental Applications</p> <p>Date / Period: 19-09-2024 Time: 09.30 a.m - 1.00 p.m</p> <p>Report / Summary / Key points discussed: Discussion on third-generation solar cells and how nanotechnology is helping reduce costs while improving energy conversion rates. Use of Nanomaterials in water purification, including nano-filtration and photocatalytic degradation of pollutants. Discussions on how nanotech-enabled systems can contribute to environmental sustainability and energy independence. Opportunities for interdisciplinary collaboration among universities, research institutes, and industry partners.</p>	<p>Dr. K. Ravichandran, Principal, Thanthai Hans Roever College, Perambalur.</p> <p>Dr. Mazabalo Baneto, Associate Professor of Physics University of Lome, Togo, West Africa.</p>	<p>Supervisors, Research Scholars, Faculty and PG Students</p> <p>120</p>





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INSTITUTE OF SCIENCE & TECHNOLOGY
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3rd INTERNATIONAL SEMINAR

ON ADVANCEMENTS IN NANOTECHNOLOGY FOR SOLAR CELLS AND ENVIRONMENTAL APPLICATIONS

Organized by

Department of Physics
&
Physics Endeavors Club, PMIST

RESOURCE PERSONS



Dr. K. Ravichandran
Principal,
Thanthai Hans Roever College (A),
Elambalur, Perambalur.



Dr. Mazabalo Baneto
Associate Professor
Department of Physics,
University of Lome', 01BP1515, Lome' - Togo
West Africa.

Coordinators

Dr. N. Siva Jyothi AP/Physics
Dr. K. Dhanalakshmi AP/Physics

Convenor

Dr. P. Gayathri
HoD/Physics



19 September, 2025



09.30 AM

VENUE : EINSTEIN HALL

PROGRAMME SCHEDULE

09.30 am – 10.00 am **INAUGURATION**

Mozhi vazhthu

Welcome Address – **Dr. P. Gayathri**, HoD/ Physics

Felicitatation Address – **Dr. D. Jeyasimman**,
Director / Dean Academic Research ,
Dr. P. Balakumar,
Director-Research Training &
Publications

Inaugural Address – **Dr. P. Vijayalakshmi** Dean / FSH

10.00 am – 11.30 am

Session – I : Invited Lecture

Dr. Mazabalo Baneto

Associate Professor,
Department of Physics,
01BP1515, University of Lome-Togo,
West Africa.

11.30 am – 11.45 am

TEA BREAK

11.45 am – 12.45 pm

Session – II : Invited Lecture

Dr. K. Ravichandran

Principal,
Thanthai Hans Roever College(A),
Elambalur, Perambalur.

12.45 pm – 01.00 pm

Vote of Thanks

National Anthem

DEPARTMENT OF PHYSICS

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PERIYAR
 MANIAMMAI
 UNIVERSITY

3rd International Seminar
 On

Advancement in Nanotechnology for Solar cells and Environmental Applications

Date: 19.09.2025

Venue: Einstein Hall

Sl. No.	Name	Designation	Signature
1.	S. Dhanush Kumar	IV B.tech (Mech)	S. Dhanush Kumar
2.	K. Jagadeeshwaran	IV B.tech (Mech)	K. Jagadeeshwaran
3.	A. JEEVANARATHAN	IV B.tech (Mech)	A. Jeevanarathan
4.	P. Anarakti	IV B.Tech (Mech)	P. Anarakti
5.	S. AVINASH	II - BSC (Chemistry)	S. Avinash
6.	S. I. Baba Sakin	II - BSc Chemistry	S. I. Baba Sakin
7.	B. Swarn Raj	II - BSc Chemis	B. Swarn Raj
8.	Krubaa P	I - M.tech nanotechnol	Krubaa P
9.	Sowmitha J	II - B.Sc. B.Ed	Sowmitha J
10.	AKILA . V	II - B.Sc. B. Ed	AKILA . V
11.	YUNASSI . V	II - B.Sc. B. Ed	YUNASSI . V
12.	Manaka . D	II - B.Sc. B. Ed	Manaka . D
13.	AMBIKA . S	I - B.Sc. B. Ed	AMBIKA . S
14.	D. sneha	I - B.Sc. B. Ed	D. sneha
15.	P. Kiruthika	I - B.Sc. B. Ed	P. Kiruthika
16.	J. Theethana	I - B.Sc. B. Ed	J. Theethana
17.	M. Santhiya	I - B.Sc. B. Ed	M. Santhiya
18.	S. Reslin Sagarum	I - B.Sc. B. Ed	S. Reslin Sagarum
19.	ALSIWARYA . S	T- MSc (CHEMISTRY)	ALSIWARYA . S
20.	Sushmitha . K	T. M.Sc. (Chemistry)	Sushmitha . K

N. Anitha
 K. Anand

Coordinators



P. Chandrasekar
 Convener

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Sl. No.	Name	Designation	Signature
1.	Sai Sivosh . P	125012186014	Sai Sivosh
2.	visuvanathan . k	125012186020	visuvanathan
3.	S. Mohanesh Atsakan	125012186021	S. Mohanesh
4.	P. Rajathiruppathi	123121656593	P. Rajathiruppathi
5.	R. Mohanesh Ayal	123012165087	R. Mohanesh
6.	M. Kabilan	123012165084	M. Kabilan
7.	R. Lingesh	123012165084	R. Lingesh
8.	K. Manikandan	123012165102	K. Manikandan
9.	T. Shanthakumar	123012165106	T. Shanthakumar
10.	M.V. Vijaymaran	123012161079	M.V. Vijaymaran
11.	M. Shaam	125012186016	M. Shaam
12.	S. Pradama	125012186011	S. Pradama
13.	K. Md. Faruk	125012186009	K. Md. Faruk
14.	M. Mohamed Ayal	125012186008	M. Mohamed Ayal
15.	Santhosh S	125012186015	Santhosh S
16.	A.J. Abishek	125012186001	A.J. Abishek
17.	C. Pravin karth.	125012186012	C. Pravin karth.
18.	S. Suresh	123012165108	S. Suresh
19.	R. Dhinesh	123012165100	R. Dhinesh
20.	V. Pragasathan.	123012165090	V. Pragasathan.

A. Suresh
 K. Chand

Coordinators



P. Gayathri
 Convenor

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3rd International Seminar
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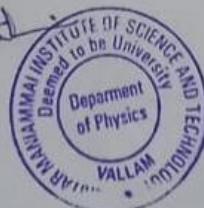
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Sl. No.	Name	Designation	Signature
1.	R. Kamal Raj	II-YEAR H-TECH (R.E)	R. Kamal Raj
2.	S. Sathiyajayaseelan	I-Year. M.Sc (BIOTECH)	S. Sathiyajayaseelan
3.	S. GUREEMOORTHY	2 Year MSc BIOTECH	S. Gureemorthy
4.	G. Siva Subramaniam	2 Year MSc Biotech	G. Siva Subramaniam
5.	M. Tharishubhan	IV Year B-Tech Mech	M. Tharishubhan
6.	APPU. S	IV year - B.Tech Mech	APPU. S
7.	GIRIRAJAN R	IV year - B.Tech mech	Girirajan R
8.	Muhilan R	IV year - B.Tech mech	Muhilan R
9.	A. Ragul	IV Year - B. Tech mech	A. Ragul
10.	M. Praveen	IV year - B.Tech mech	M. Praveen
11.	Aswin. G	IV Year - B. Tech Mech	Aswin. G
12.	Kemalvishvas S	IV Year - B.Tech mech	Kemalvishvas S
13.	Harisharan. B	IV Year - B.Tech mech	Harisharan. B
14.	M. Bharath Raj	IV year - B.TECH MECH	M. Bharath Raj
15.	Praveen. A	IV year B.Tech mech	Praveen. A
16.	Mathimurugan. H	IV year B.Tech mech	Mathimurugan. H
17.	K. Nathan	IV year B.Tech	K. Nathan
18.	Dana Kirulaha Ram	IV year B.Tech	Dana Kirulaha Ram
19.	Laxman. V	IV year B.Tech	Laxman. V
20.	C. Thiruvethan	IV year B.Tech	C. Thiruvethan

N. Ananya K. Chand
 19/9/25

Coordinators



P. Jayalaxmi
 19/9/25

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Sl. No.	Name	Designation	Signature
1.	B. Harini	I MSc chemistry	B. Harini
2.	S. SIVASRI	I MSc CHEMISTRY	Sivasi.S.
3.	S. GIYATHRI	I MSc CHEMISTRY	S. Giyathi
4.	G. THIYAMESH	I MSc CHEMISTRY	Thiyamesh
5.	R. UTHOPIKA	II MSc physics	R. Uthopika
6.	C. Sarojini	III MSc physics	C. Sarojini
7.	S. Keerthi	II M.Sc physics	S. Keerthi
8.	M. Jaganani	III B.Sc physics	M. Jaganani
9.	K. Anitha	Ist M.Sc Biotech	K. Anitha
10.	K. Ripana Parveen	Ist M.Sc. Biotechnology	K. Ripana Parveen
11.	B. Dhanya Bravathi	Ist MSc. Biotechnology	B. Dhanya Bravathi
12.	G. Dhavshini	Ist MSc. Biotechnology	G. Dhavshini
13.	M. palkodi	I st ph.D Biotechnology	M. palkodi
14.	T. Kalaimathi	IV - B.Sc. B.ed education	T. Kalaimathi
15.	B. subathra	IV - B.sc. B.ed Education	B. Subathra
16.	M. Ishwarya	"	M. Ishwarya
17.	M. Fatima Farveen	"	M. Fatima Farveen
18.	R. Pasika	III - B.Sc. B. Ed education	R. Pasika
19.	S. Mathewari	"	S. Mathewari
20.	D. Kiruba	II BSc chemistry	D. Kiruba

N. Anupam K. Chand
 19/9/25

Coordinators



P. Gayathri
 19/9/25
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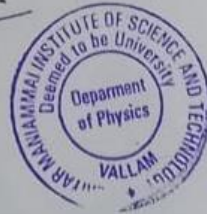
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Venue: Einstein Hall

Sl. No.	Name	Designation	Signature
1.	M. Moanvendhan	123012165028	
2.	M. Vengatesan	Lab Asst	M. Vengatesan
3.	N. DARTHI	Tech. Asst/PHY	N. Darti
4.	K. R. Shalene	Research Scholar phy	
5.	G. KAVITHA	Research Scholar phy	
6.	S. Vishali	BSc. Chemistry	S. Vishali
7.	L. Karthikeyan	III BSC chemistry	L. Karthikeyan
8.	A. Jancy Bibiya	II BSC chemistry	A. Jancy Bibiya
9.	D. Kiruba	I " " "	D. Kiruba
10.	K. Sharni	II BSC chemistry	K. Sharni
11.	F. Gulzar Fathima.	I st BSc. AI - Immersive Technol	F. Gulzar Fathima.
12.	C. Janani Sri	I st BSc. AI Immersive technology	C. Janani Sri
13.	G. Anandini	I st BSC AI, Imm tech	G. Anandini
14.	A. Sivasri	I st (BSc) AI (IT)	A. Sivasri
15.	R. Avanthika	I st (B.Sc) AI (IT)	R. Avanthika
16.	M. Anbusudha	I st BSC (AI) (IT)	M. Anbusudha
17.	K. Mahalakshmi	I st BSC (AI) (IT)	K. Mahalakshmi
18.	S. Subiksha	Research Scholar/Phy	S. Subiksha
19.	Dr. K. Chandakshani	AP/physics	
20.	D. Densing. V	III rd B.Sc Physics	

N. Siva
 19/9/25 K. Chandakshani

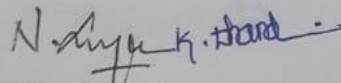
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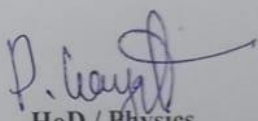


P. Vengatesan
 Convener

Outcome of the Seminar:

- **Enhanced Awareness** of how nanotechnology can drive advancements in solar energy solutions and tackle pressing environmental challenges.
- **Generation of Innovative Research Ideas** that have the potential to inspire future projects focused on developing high-efficiency solar cells and environmentally friendly materials.
- **Valuable Practical Insights** into current trends and developments in nanotechnology, with applications across both academic research and industrial practices.
- **Strengthened Academic and Research Networks**, providing a platform for knowledge exchange and fostering collaborative opportunities in the field of sustainable nanotechnology.


Coordinator


HoD / Physics
Head,
Department of Physics,
Periyar Maniammal
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