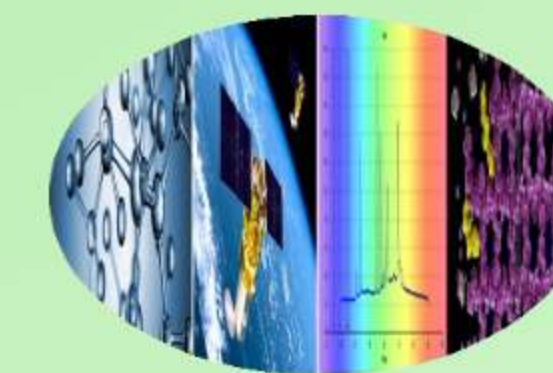


# NATIONAL SEMINAR ON FUNCTIONAL MATERIALS AND ITS APPLICATIONS (NSFMA-2022)

14<sup>th</sup> October 2022

Organized by

The Department of Physics & Research Centre, Muslim Arts College, Thiruvithancode – 629174  
Kanyakumari District, Tamil Nadu, India.



## About the College

Muslim Arts College, Thiruvithancode is a benefaction of the Muslim Educational Society which was established in the year 1982. Earlier, the college was affiliated to Madurai Kamaraj University with the approval of the Government of Tamil Nadu. From 1990, it is affiliated to Manonmaniam Sundaranar University, Tirunelveli. This college has a commendable role in the growth of education in this district. The college has seen a boom with a steady growth of more than 2000 students, with 190 highly efficient and dedicated faculty members and 75 non-teaching members. This college offers 30 courses in both UG and PG programmes, 8 M.Phil courses and 8 Research programmes.

## About the Department

Physics was introduced as a core subject at the undergraduate level in 1985, Postgraduate level in 2010 and M.Phil in 2016. It was upgraded as a Research centre in 2018. The laboratory of UG, PG & Research are spacious and fully furnished to cater to the needs of the students and scholars. The department has notable academic and research achievements.

## Objective of the Seminar

To expose the recent developments, applications and innovations in material science to students, Research scholars and faculty members of other discipline.

## Focused Areas

Biomaterials	Computational materials
Nano materials	Thin films
Crystal growth	Energy and storage devices
Space Physics	Spectroscopy
NLO materials	

## Guidelines for paper submission

- The full paper should include the title of the paper, name (s) of author (s), presenting author, affiliations including email address, key words highlights of the study.
- The soft copies of original and unpublished full papers should be submitted on or before 30<sup>th</sup> September 2022 to [nsfma2022mac@gmail.com](mailto:nsfma2022mac@gmail.com).
- The paper should not exceed 4 pages including tables and diagrams.
- Font style Times New Roman, Font size 12 and line space 1.5.
- The selected papers will be published in ISBN book.
- The time for an oral presentation is limited to 5 minutes plus 2 minutes for questions and discussion.

## Poster Presentation

Display area of 1m × 1m will be provided for each poster presentation.

## Awards

Best Paper presentation award will be given based on the work/presentation.

## Registration fees

For Presentation	
Faculty/ Scientist	- Rs. 1000
Research Scholar	- Rs. 900
For Participation	- Rs. 800

## Mode of Payment online

Account Name : J.R.Sheeba  
A/C No : 272301000000516  
IFSC Code : IOBA0002723  
Branch : Azhagiyamandapam

## Registration

Registration can be done through the following link:

<https://forms.gle/JTKFoi4SH7JpB2scA>

## Important Dates

Submission of abstract	: 24-9-2022
Intimation of acceptance	: 27-9-2022
Last date for registration	: 10-10-2022

## Address for Correspondence

**Dr. A. Iren Sobia**  
Assistant Professor of Physics  
Muslim Arts College,  
Thiruvithancode – 629174  
Kanyakumari District, Tamil Nadu, India.  
E-mail : [nstam2022mac@gmail.com](mailto:nstam2022mac@gmail.com)  
Mobile: +91 8220754861, +919486906838

## Resource Persons



**Dr. I. Hubert Joe,**  
Associate Professor,  
Mar Ivanios College,  
Kerala.

**Dr. S. Radhika,**  
Assistant Professor,  
Pioneer Kumaraswamy  
College, Nagercoil.



## Organizing committee

**Lion. Dr. H. Mohamed Ali**  
Secretary/Correspondent, Muslim Arts  
College

**Mr. M. Mohamed Afzal Fayaz**  
Joint Secretary, Muslim Arts College

**Dr. G. Edwin Sheela**  
Principal,  
Muslim Arts College, Thiruvithancode.

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**Dr. J.R.Sheeba,**  
Head, Department of Physics & Research  
Centre

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Dr. D. Shalini  
Dr. V.K.Suma

**MUSLIM ARTS COLLEGE, THIRUVITHANCODE**  
**PG AND RESEARCH DEPARTMENT OF PHYSICS**

**National Seminar on Functional Materials**  
**and its Applications**

**NSFMA-2022**

**(October 14, 2022)**

The programme began with Kirath by S. Zeenath Beevi of III.B.Sc Physics. Then Tamilthai Vazhthu was sung by our Students. Dr. J.R. Sheeba, Head, Department of Physics welcomed the gathering. The seminar was inaugurated by Lion Dr. H. Mohamed Ali, Secretary, Muslim Arts College, Thiruvithancode. More than 200 participants including PG students, M.Phil Scholars, Research Scholars and Faculty members actively participated in the seminar. The Proceeding Book, including 35 contributory papers was released by Lion. M. Mohamed Afzal Fayaz, Joint Secretary, Muslim Arts College, Thiruvithancode. The Felicitation address was given by Dr. A. Mohamed Siddique, Vice Principal, MAC, Thiruvithancode. Dr. I. Hubert Joe, Associate Professor, University of Kerala, Trivandrum gave a keynote lecture on Raman Spectroscopy as a Tool. After the keynote lecture Dr. S. Radhika, Assistant Professor, Pioneer Kumaraswamy College, Nagercoil gave a lecture on the Nanostructures – a Stimulus for Innovation. At 1.00 p.m the gathering was dispersed for lunch. The Research Scholars and Faculty members from various institutions presented their work during the poster and oral session from 2.00 to 3.00 pm.

The valedictory session was started at 3.00 pm by the valedictory address of Dr. G. Edwin Sheela, Principal, Muslim Arts College, Thiruvithancode. The feedback form was issued to the participants to get the valuable suggestions from the participants. Best Oral presentation award was given to P.Asathy, Research Scholar, University of Kerala, Kariavattom and best poster presentation award was given to T.C.Bessy, Research Scholar, Annai Velankanni College, Tholayavattam. The awards were given by Dr. G. Edwin Sheela, Principal, Muslim Arts College, Thiruvithancode. Dr. A. Iren Sobia, Assistant Professor,

Department of Physics & Research Centre proposed the vote of thanks. The programme ended with National Anthem.

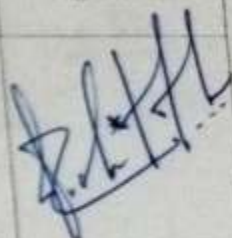
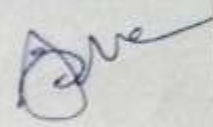
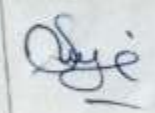



Principal *Shah*

PRINCIPAL  
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THIRUVITHANCODE - 629 174

Head of the Department  
PG and Research Centre of Physics  
Head of the Department  
Thiruvithancode - 629174

**NATIONAL SEMINAR ON FUNCTIONAL MATERIALS AND ITS APPLICATIONS**  
**(NSFMA -2022)**  
**14<sup>th</sup> October 2022**

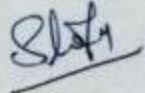
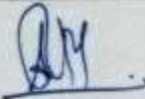

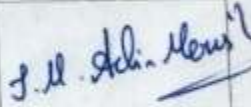


S.No	Name	Title of Paper	Type of Presentation	Payment	Signature
1	J J Rushmitha. Research Scholar WOMEN'S CHRISTIAN COLLEGE rushmitthajj@gmail.com	Magnetic Nanoparticle For Data Storage Devices	Oral	900/- 226925 399308	
2	Ancy.T. Research Scholar St. Judes college, thoothoor ancyangel711@gmail.com	Spectroscopic And. Molecular Docking Studies On : 6-Hydroxy-2,4-Dimethylpyrimidine (Hdmp)	Oral	900/-	
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5	E. S. Karolin Mary Research Scholar WOMEN'S CHRISTIAN COLLEGE karolinmary1996@gmail.com	Assessment Of Natural Radioactivity Levels In Sands Across The Pazhayar River Sands, Kanyakumari District	Oral	900/- 22666945 3822	Karla Mary
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8	S. K. Jasmin Vijitha Research Scholar Muslim Arts College, Thiruvithancode jasminmartin2010@gmail.com	Synthesis And Characterization Of Nickel Doped Cobalt Oxide Thin Films For Electrochemical Applications	Oral	900/-	Jasmin





9	Surya S Mohan Research Scholar Muslim Arts College, Thiruvithancode suryathennoor@gmail.com	Spectral and vibrational Assignments of 4-Chloro-3-Nitro- Coumarin	Oral	900/-	<u>Surya</u>
10	T.C.Bessy Research Scholar Annai Velankanni College, Tholayavattam. bessythomas666@gmail.com	Photocatalytic activity of magnesium ferrite nanoparticles for degradation of congo red dye	Oral	900/- 22671967 4408	<u>Bessy</u>
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PROCEEDINGS OF NATIONAL SEMINAR ON

# FUNCTIONAL MATERIALS AND ITS APPLICATIONS

(NSFMA-2022)

EDITED BY

Dr. J.R.Sheeba  
Dr. A. Iren Sobia

14<sup>th</sup> OCTOBER, 2022

DEPARTMENT OF PHYSICS  
&  
RESEARCH CENTRE



**MUSLIM ARTS COLLEGE**

Thiruvithancode - 629174

Kanyakumari District

Tamil Nadu, India

# FUNCTIONAL MATERIALS AND ITS APPLICATIONS

National Seminar Proceedings  
(NSFMA –2022)

*Edited by*

Dr. J.R.Sheeba  
Dr. A. Iren Sobia



DEPARTMENT OF PHYSICS & RESEARCH CENTRE

MUSLIM ARTS COLLEGE

THIRUVITHANCODE - 629174

KANYAKUMARI DISTRICT,

TAMIL NADU, INDIA

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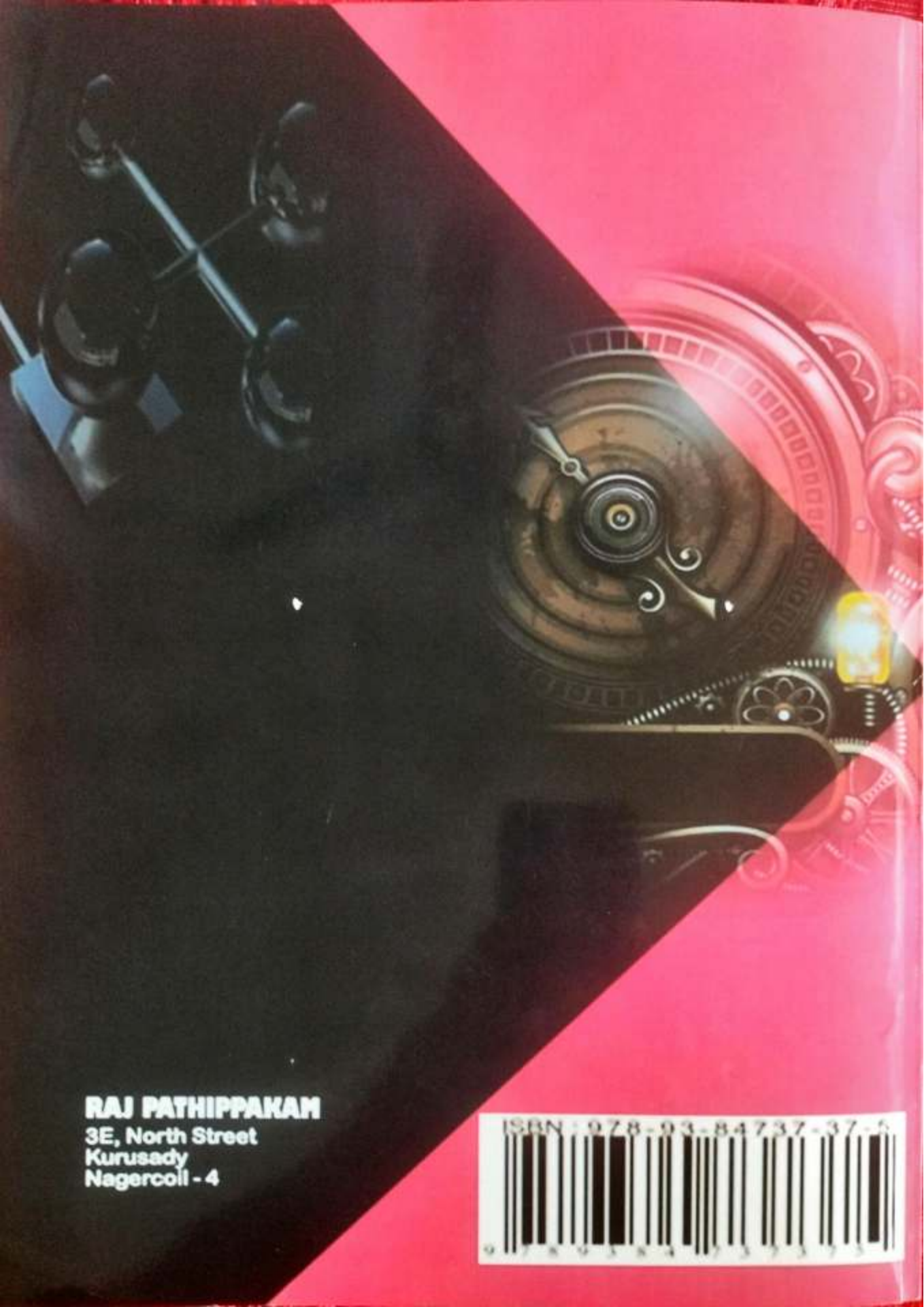
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## DEPARTMENT OF PHYSICS & RESEARCH CENTRE NATIONAL SEMINAR ON FUNCTIONAL MATERIALS AND ITS APPLICATIONS



This is to certify that Mr./Ms./Dr./Prof. .... affiliated  
to ..... has participated/ presented paper in National Seminar On  
Functional Materials And Its Applications (NSFMA –2022), organized by the Department of Physics & Research  
Centre on 14<sup>th</sup> October 2022 at Muslim Arts College, Thiruvithancode, Kanyakumari District.

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Convener