



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

DEPARTMENT OF PHYSICS

Title : Inter Department Special Lecture on “Molecular Surface Physics: Towards Blood based detection of Alzheimer’s Disease”

Date : 29-07-2022

Resource Person/s : **Dr. PETER NIRAJ NIRMALRAJ**
Head, Biosensing and Functional Surfaces,
Swiss Federal Institute of Material Science and Technologies,
Zurich, Switzerland.

No. of Participants : 101

Focus on : **Entrepreneurship & Skill Development**

Outcome :

The resource person gave an eye opening session on the broad area of Molecular Electronics. The students gained knowledge on prominent characterization techniques of ‘Scanning Probe Microscopy’. The special lecture emphasized on the recent experiments using scanning tunnelling microscopy and spectroscopy, where the spin state can be controlled by electric field, electric current or light. The students were motivated to do research in Universities abroad.



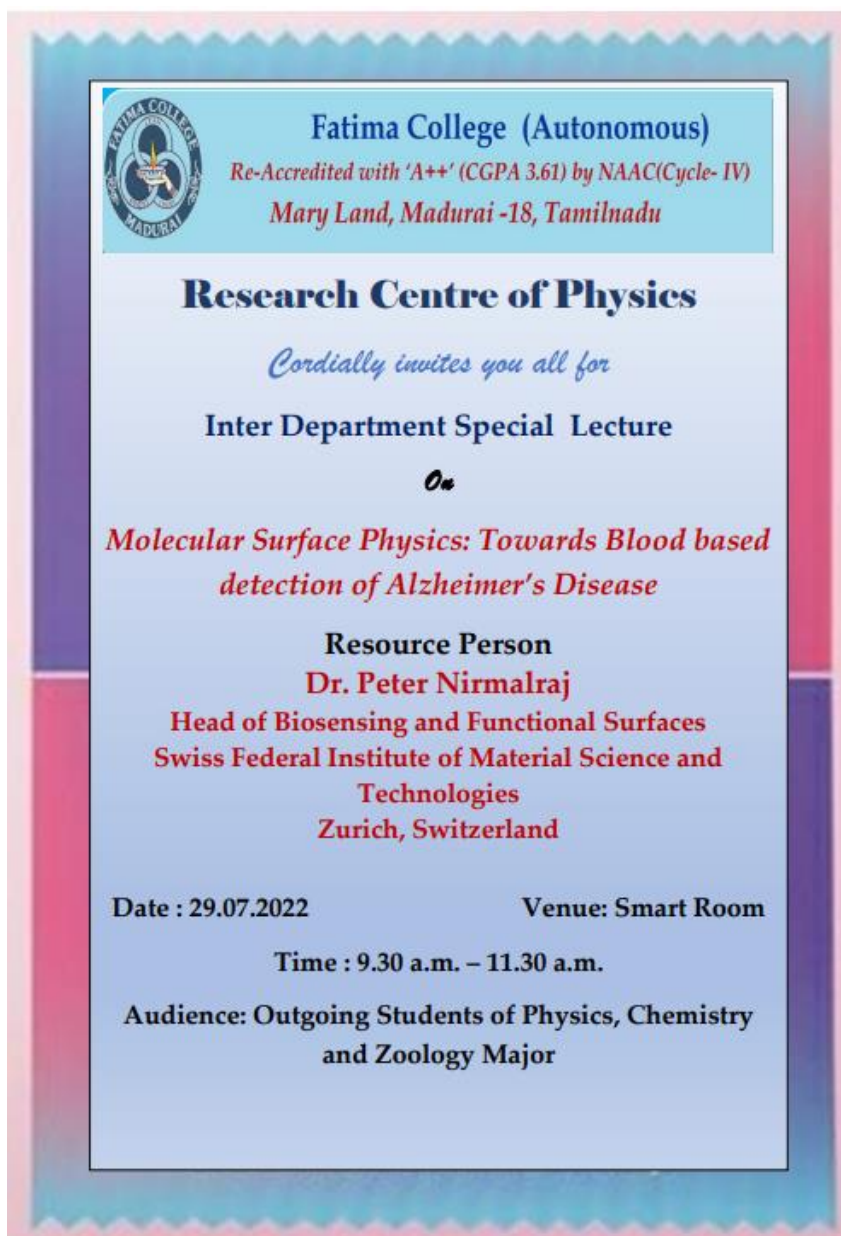
FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

Report:

Invitation/Brochure



Text

The Inter Department Special Lecture began at 9.30 am on 29th July, 2022 with a prayer song followed by Welcome Address by Ancitta (III B.Sc. Physics). The students of II PG Physics, II PG Chemistry, II PG Zoology, III UG Physics, Research Scholars (Physics) and Faculty members gathered in the Smart Room.



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

The Resource person, Dr. Peter Niraj Nirmalraj, Head, Bio sensing and Functional Surfaces, Swiss Federal Institute of Material Science and Technologies, Zurich, Switzerland gave a wonderful and interesting lecture on “Molecular Surface Physics: Towards Blood based detection of Alzheimer’s disease”.

Dr. Peter spoke elaborately on the experimental techniques of Scanning Probe Microscope. He emphasized the need for Interdisciplinary (Physics, Chemistry and Zoology) Science and Technology for innovations in research, which in turn leads to contribution to the wellness of the world. From the self-organization of birds’ flight to self-organization of molecules, Sir, gave a vivid lecture.

Dr. Peter’s important tips on “brain diahorrea” and “memory shrinkage” which leads to Alzheimer’s disease is noteworthy. His talk highlighted the need for physical activities, healthy diet and deleting negative residuals in the mind, which pave way for a healthy life.

Elite Peter Nirmalraj from
Elite IBM lab Zurich
gave a thought provoking and motivating lecture.

After the lecture, there was a good interaction between students and Dr. Peter. The meeting came to an end with the National Anthem.

Photos/Screen Shots (if online) with Captions



Dr. Peter Nirmalraj rendering an inspirational lecture on Blood based detection of Alzheimer’s disease



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu



Lat:9°56'55.9" Long:78°05'56.2" SW214° 125M Fatima College (Autonomous)



Lat:9°56'55.8" Long:78°05'55.7" N355° 147M Fatima College (Autonomous)



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu



Lat:9°56'54.1" Long:78°05'54.9" E86° 143M Fatima College (Autonomous)

Students gaining knowledge on the characterization techniques of Scanning tunnelling microscopy and spectroscopy

A. Sheela Vimala Rani

Signature of HOD

Dr. A. SHEELA VIMALA RANI
HEAD & ASSOCIATE PROFESSOR
DEPARTMENT OF PHYSICS
FATIMA COLLEGE
MADURAI - 625 018



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

Title : Inter Department Special Lecture on “Molecular Surface Physics: Towards Blood based detection of Alzheimer’s disease”

Date : 29-07-2022

Name list of Participants

S. No.	Reg. No	Name (Full name with Initials)
II M. Sc. PHYSICS		
1.	2021MSCP01	AGNES J
2.	2021MSCP02	ARUNAASHREE V
3.	2021MSCP03	BATRICKS JEENA M
4.	2021MSCP04	BENCIA IMMACULATE J
5.	2021MSCP05	FAHEERAPARVEEN N
6.	2021MSCP07	JESLINE FELSIA R
7.	2021MSCP08	JOYCE JESINTHA M
8.	2021MSCP10	KOWSALYA R
9.	2021MSCP11	LIBIYAVINNARASI T
10.	2021MSCP12	MARIA JASMINE SHINY A
11.	2021MSCP13	MARIA SHINOLA F
12.	2021MSCP14	MONISHA M
13.	2021MSCP16	PAPINA P
14.	2021MSCP17	POORNIMADEVI B
15.	2021MSCP18	PREMA V
16.	2021MSCP19	PRINCY J



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

17.	2021MSCP20	SHINEY PRECILLA S
18.	2021MSCP21	SIVAPRIYADHARSHINI R
19.	2021MSCP25	SUNDARI B
20.	2021MSCP26	ANGELIN SNEGA S
21.	2021MSCP27	SIVAPRIYA M
22.	2021MSCP28	ABINAYA A
III B. Sc. PHYSICS		
23.	2020P01	ABARNA J
24.	2020P02	ABINAYA C
25.	2020P03	ABISHA S
26.	2020P04	AILEEN MATHARASI A
27.	2020P05	ANCITTA D
28.	2020P06	ANUSUYA MARY R
29.	2020P07	BERSHINA P
30.	2020P08	BHUVANESHWARI V
31.	2020P10	DEVADHARSHINI T
32.	2020P11	DIVAIN PENNI J
33.	2020P12	DONCY PUNITHA J
34.	2020P15	JASMIN FATIMA G
35.	2020P16	JEFFRINA J
36.	2020P17	JEYASHREE B
37.	2020P18	KAVITHA P
38.	2020P19	KEERTHANA C
39.	2020P20	KIRUTHIKA R



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

40.	2020P22	LAVANYA P
41.	2020P23	NANDHINI DEVI V
42.	2020P24	NANDHINI K
43.	2020P25	NITHYA SHREE G
44.	2020P26	RITHIKA M
45.	2020P27	ROSHAL R
46.	2020P28	ROSHINI T
47.	2020P29	SAFREEN ASHIMA S
48.	2020P30	SALIMA SULTHANA M
49.	2020P31	SHALINIPRIYA J
50.	2020P32	SWEETLIN SHERLY C
51.	2020P33	SYLVIA JOAN J
52.	2020P34	THIYATHRA RISEN R
53.	2020P35	VISHNU VARDHINI J
54.	2020P37	HARISH IFRIN S N
55.	2020P38	MATHUMITHA R
56.	2020P39	NANCY BEAULAH R
57.	2020P41	SANTHIYA S
II M. Sc. CHEMISTRY		
58.	2021MSCC01	ASHA BANU A
59.	2021MSCC02	BHAVANI M
60.	2021MSCC03	DEEPTHI N
61.	2021MSCC04	HEMA DHARSHINI R
62.	2021MSCC05	INFANTAJENIFER A



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

63.	2021MSCC06	JANANI H
64.	2021MSCC07	JANANI R
65.	2021MSCC08	JASMINE JENOBHA D
66.	2021MSCC11	LOGESHWARI K
67.	2021MSCC13	MAGIMAGRACE V
68.	2021MSCC14	MANSOORUL SAJITHA THASLEEM M
69.	2021MSCC15	MATHU MEENA P
70.	2021MSCC16	PERARASI R C
71.	2021MSCC17	SANTHANA KARTHIKA S
72.	2021MSCC18	SHEEBA K
73.	2021MSCC19	SNEKA K
74.	2021MSCC20	SOUNTHARYA V
75.	2021MSCC21	SRI HARSHINI M
76.	2021MSCC22	SUBASHINI M
77.	2021MSCC23	SUBASHINI V
78.	2021MSCC24	YUVARANI K
79.	2021MSCC25	FEBIA C
80.	2021MSCC26	MARIYA JOSE PRINCIYA J
81.	2021MSCC27	JOY JULIE ANSLIN A
82.	2021MSCC28	SABITHRA S
83.	2021MSCC29	SHANMUGAPRIYA P
84.	2021MSCC30	VISWATHIKA K
85.	2021MSCC31	SNEHA P S
II M. Sc. ZOOLOGY		



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

86.	2021MSCZ01	ANTOSHINY BRIJITHA B
87.	2021MSCZ01	KIRUBA ROOBALA A
88.	2021MSCZ04	PAVITHRA R
89.	2021MSCZ05	SMITHA E.V
I M. Sc. ZOOLOGY		
90.	2022MSCZ01	AKSHAYA TS
91.	2022MSCZ02	ANJUGAM P
92.	2022MSCZ03	ANTONETTE SIENA P
93.	2022MSCZ04	HIMALINI K
94.	2022MSCZ05	JEMIMA GLADY P
95.	2022MSCZ06	MERCILIN P
96.	2022MSCZ07	SARASWATHI B
97.	2022MSCZ08	SATHYA RANI L
98.	2022MSCZ09	THAHSIN BANU S
99.	2022MSCZ10	VARALAKSHMI K
100.	2022MSCZ11	YOGESHWARI G
101.	2022MSCZ12	REXLINE A

A. Sheela Vimala Rani

Signature of HOD

Dr. A. SHEELA VIMALA RANI
HEAD & ASSOCIATE PROFESSOR
DEPARTMENT OF PHYSICS
FATIMA COLLEGE
MADURAI - 625 018