

Fatima College

(Autonomous)

Re-Accredited with 'A++'(CGPA3.61) by NAAC(Cycle- IV)
College with Potential for Excellence (2004 - 2019)
101 - 150 Rank Band in India Ranking 2021 (NIRF)
Mary Land, Madurai - 625018, Tamil Nadu.



FATIMA COLLEGE (AUTONOMOUS), Mary Land, Madurai – 625 018.

THE RESEARCH CENTRE OF PHYSICS

Title: Virtual Web Lecture on “*Rare Earth Doped Glasses and its Applications*”.

Date: 09.03.2021

Resource Person: Dr. K. Marimuthu, Asst. Professor, Department of Physics,
Gandhigram Rural University, Gandhigram

No. of Participants: 131

Focus on: Skill Development

Outcome: The students got updated with the current world research scenario, which would enhance their **research skills and skills of application of knowledge to practice**. They were made aware of the significant role of rare earth doped glasses in solid- state lasers, broadband optical amplifiers, and up-conversion luminescence temperature sensors.

Report:

National Science Day is celebrated in India with the objectives of commemorating the first Nobel prize in India on Science which was achieved by the discovery of Raman Effect by Sir C V Raman. It is also celebrated to emphasize on the culture of science and the application of science for the welfare of people. Every year Dept. of Physics organizes a series of events as part of National Science Day celebrations.

As a part of that, Dept. of Physics organized a **virtual web** lecture on “*Rare Earth Doped Glasses and Its Applications*”. **Dr.K.Marimuthu, Asst. Professor, Department of Physics, Gandhigram Rural University, Gandhigram**, gave THIS LECTURE ON 09TH MARCH 2021 IN THE PREMISES OF FATIMA COLLEGE. In the field of photonics and materials engineering there has recently been a great interest in glasses and ceramics doped with rare earth ions emitting visible light or infrared radiation. They are very promising photonic materials in relation to several multifunctional and industrial applications. And the speaker very clearly explained how these rare earth doped glasses/ceramics play significant roles in solid-state



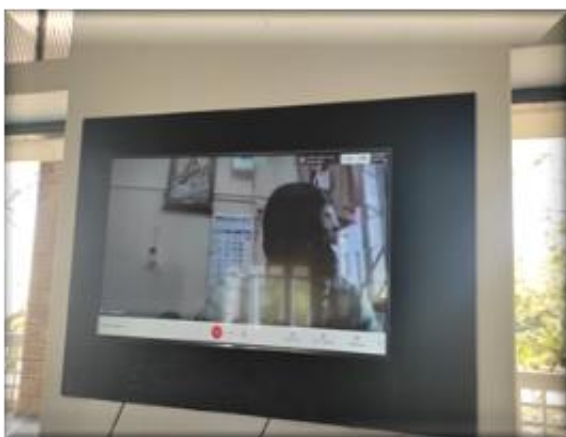
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lasers, broadband optical amplifiers, and up-conversion luminescence temperature sensors. Also he gave special attention to inorganic glasses applied to optical fiber technology and studies of radiative and non-radiative relaxation processes and their mechanisms between the rare earth ions and how they are crucial to obtain knowledge about luminescent glasses and ceramics. It was a very informative session. Around 131 of the students participated in this event and listened to this lecture and got benefitted out of it.



GLIMPSES OF THE WEB LECTURE ON “Rare Earth Doped Glasses and Its Applications” GIVEN BY DR. MARIMUTHU, ASST. PROFESSOR, DEPT. OF PHYSICS, GANDHIGRAM RURAL UNIVERSITY, GANDHIGRAM ON 09.03.21.



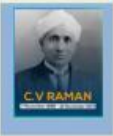
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Invitation



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Mary land, Madurai - 18.



NATIONAL SCIENCE DAY CELEBRATIONS -2021

SPECIAL WEB LECTURE

BY

DR. K. MARIMUTHU, ASST. PROFESSOR,
DEPARTMENT OF PHYSICS, GANDHIGRAM RURAL UNIVERSITY,
GANDHIGRAM

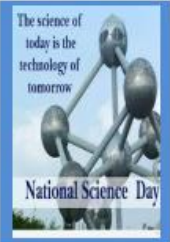
ON

**"RARE EARTH DOPED GLASSES AND
ITS APPLICATION"**

Date: 09.03.2021 Time: 9.30 am -10.30 am

Science Day Competitions

Quiz: 10.03.2021
Essay: 11.03.2021
Topic: I) Science for Peace
II) Role of Physics in COVID 19 Diagnosis and Therapy/Vaccine
Video Making: 12.03.2021 Topic : Science for peace





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LIST OF PARTICIPANTS

S.No.	Reg.No	Name of the Student
1.	2019MSCP02	Ashika V
2.	2019MSCP04	Deepika R
3.	2019MSCP05	Dias Sharmathi D
4.	2019MSCP06	Felcy Jose Roy J
5.	2019MSCP07	Harishma B
6.	2019MSCP08	James Linia P
7.	2019MSCP09	Jenifer K
8.	2019MSCP10	JerlinFatiRanjitham E
9.	2019MSCP11	JosibaArockia Pavithra A
10.	2019MSCP12	Keerthiga V
11.	2019MSCP14	Loganayahi V M
12.	2019MSCP15	Merlin Preethi P
13.	2019MSCP16	MohanaaMuthuselvi P
14.	2019MSCP17	Monica A
15.	2019MSCP19	Premiga P
16.	2019MSCP20	ShanmughaSoundare S
17.	2019MSCP21	SheebaJesin Mercy S
18.	2019MSCP22	Sheela Jenifer A
19.	2019MSCP23	Shobika B
20.	2019MSCP24	Sowmya P
21.	2019MSCP26	Sweatha N
22.	2019MSCP27	Vinotha V
23.	2019MSCP28	Jenova P
24.	2019MSCP29	IrudayaNichomi S
25.	2019MSCP30	Yogadharshini B
26.	2020MSCP01	Agnes Pristy I
27.	2020MSCP02	Annie Roselin K
28.	2020MSCP03	Anusuya J
29.	2020MSCP05	AssumptanaSirumalar A
30.	2020MSCP06	DarathyCelciya A
31.	2020MSCP07	Deepithakumari S
32.	2020MSCP08	DhevaDharshini T
33.	2020MSCP09	Femi C
34.	2020MSCP10	Gopikavarshini S
35.	2020MSCP11	Gowsika P



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36.	2020MSCP12	Indu Priyadarshini S
37.	2020MSCP13	Karunya L
38.	2020MSCP14	Madhumitha M
39.	2020MSCP15	Marshalin Reena C
40.	2020MSCP16	Muthulakshmi E
41.	2020MSCP17	Pooja L
42.	2020MSCP18	Richa Dharani C
43.	2020MSCP19	Roshini J
44.	2020MSCP21	Selvasuba S
45.	2020MSCP22	Shrinidhy M
46.	2020MSCP24	Subhakarhika Mr
47.	2020MSCP25	Suryakala P
48.	2020MSCP26	Mariya Suji M
49.	2020MSCP27	SonaleeSm
50.	2018P01	Alan Betrova . P
51.	2018P02	Aruna Shree . V
52.	2018P03	Avila Jeromi . A
53.	2018P04	Bencia Immaculate . J
54.	2018P05	Bency Infanta . L.G
55.	2018P07	Faheera Parveen .N
56.	2018P08	Gaayathri Devi .S.P
57.	2018P10	Jeya Monica . K
58.	2018P12	Karthiga .V
59.	2018P13	KatharBeevi .A
60.	2018P14	Keerthiga .V
61.	2018P15	Koperundevi .A
62.	2018P16	Lavanya .M
63.	2018P17	Lavanya.S
64.	2018P18	LibiyaVinnarasi .T
65.	2018P19	Maria Jasmine Shiny .A
66.	2018P20	Maria Shinola .F
67.	2018P21	Mejora . R
68.	2018P23	Nandhini .S
69.	2018P24	Poornima Devi .B
70.	2018P25	Pradeepa .M
71.	2018P26	Pretika .P.A
72.	2018P27	Princy .J
73.	2018P28	Rajeswari .B
74.	2018P29	Ramya .S
75.	2018P31	Roseline Vincy .J



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76.	2018P32	Santhiya .S
77.	2018P33	Saral .P
78.	2018P34	SharihashaBalabharathy .M
79.	2018P35	Sindhu .S
80.	2018P36	Sivapriya .M
81.	2018P37	SivapriyaDharshini .R
82.	2018P38	Srija .S
83.	2018P39	Srinathi .G
84.	2018P40	Sundari .B
85.	2018P41	Vaishnavi Devi .S
86.	2018P43	Agnes .J
87.	2018P44	Deepika .K
88.	2018P45	Thowheetha Banu .M
89.	2018P46	Jane Crispin .J
90.	2018P47	SahayaKiruba .A
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120.	2018P35	Sindhu .S
121.	2018P36	Sivapriya .M
122.	2018P37	SivapriyaDharshini .R
123.	2018P38	Srija .S
124.	2018P39	Srinathi .G
125.	2018P40	Sundari .B
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128.	2018P44	Deepika .K
129.	2018P45	Thowheetha Banu .M
130.	2018P46	Jane Crispin .J
131.	2018P47	SahayaKiruba .A

A. Sheela Vimala Rani

Dr. A. SHEELA VIMALA RANI
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