



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 6.

ASSOCIATION ACTIVITY REPORT DEPARTMENT OF PG PHYSICS

Auxilium College (Autonomous), Vellore

PG & Research Department of Physics

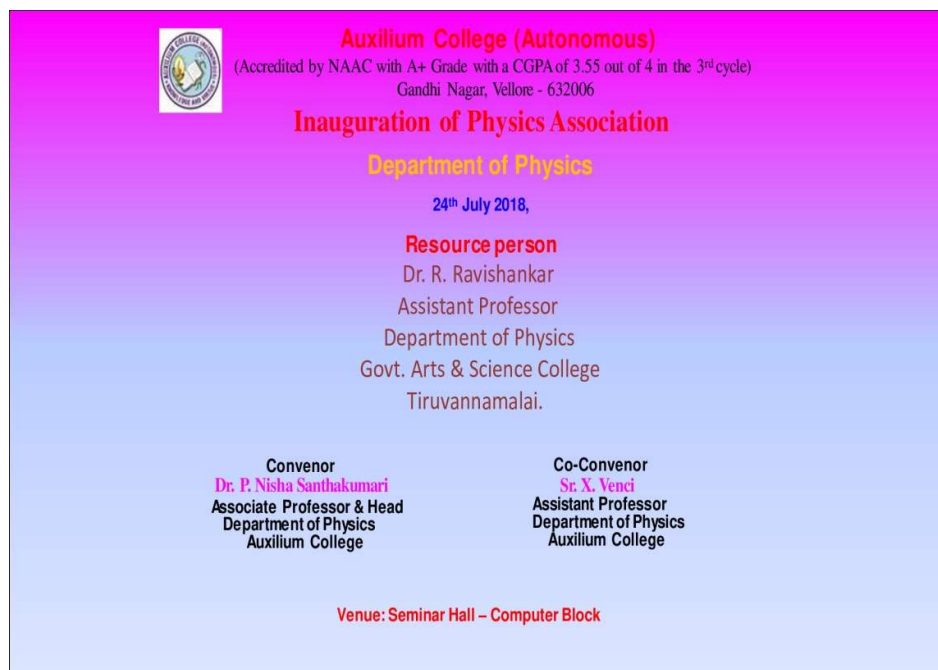
Association Activities Academic Year


2018-2019

Activity I

Inauguration of Physics association was held on 24th July 2018. Dr. R. Ravi Sankar, Associate Professor, Govt Arts college, Thiruvannamalai, delivered a lecture on 'Radiation Physics' and explained the measuring techniques of radioactivity.

Number of Beneficiaries: 177



 **Auxilium College (Autonomous)**
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Gandhi Nagar, Vellore - 632006

Inauguration of Physics Association
Department of Physics
24th July 2018,

Resource person
Dr. R. Ravishankar
Assistant Professor
Department of Physics
Govt. Arts & Science College
Tiruvannamalai.

Convenor
Dr. P. Nisha Santhakumari
Associate Professor & Head
Department of Physics
Auxilium College

Co-Convenor
Sr. X. Venci
Assistant Professor
Department of Physics
Auxilium College

Venue: Seminar Hall – Computer Block

Activity 2

One day National conference on “Advanced materials and Applications” was held on 7th September 2018 in Collaboration with Indian Spectrophysics association – ISPA. Dr. S. Gunasekaran, Dean of research and development, St. Peter’s university, Chennai and founder of ISPA delivered the inaugural address and presented the uniqueness of ATR Spectroscopy. In the afternoon session, Dr. Hubert Joe I. Associate Professor of Physics, Mar Ivanios College, Thiruvananthapuram, delivered his talk on ‘Non linear Optical Properties and Terahertz Generation studies of Organic Crystals’. The seminar was concluded with valedictory function presided by Dr. Kalainathan S., Sr. Professor and Director, VIT University, Vellore who spoke on advanced materials and its various applications in different fields and encouraged the students towards research. He then distributed the certificates for the participants and for who presented the papers in NCAMA- 2018. Ninetyfive external participants participated in the conference and 25 of them presented their research work on advanced materials.

Number of Beneficiaries : 95

Registration Fee:

Students : Rs 250/-
Research Scholars/ Faculty : Rs 300/-
Industrialists : Rs 500/-

The payment is to be made by D.D. drawn in favour of 'The Principal, Auxilium college' payable at Vellore on or before 30th August 2018.

The registration fee includes conference kit and lunch. Final year UG students are also eligible to apply. Spot registration is also permitted.

Important Dates:

Last date for sending abstract by E-mail : 20.8.2018

Last date for sending registration form : 30.8.2018

The limit for abstract is 200 words excluding the title and authors affiliations. Total length of abstract however should not exceed one page.

Address for Correspondence:

Dr. P. Nisha Shanthakumari
Convener –(NCAMA -2018)
Head, PG Department of Physics
Auxilium College, Gandhi Nagar,
Vellore – 632006
Phone: 0416-2241774; 94438 64950
Email ID: pgphysicsack@gmail.com

CHIEF PATRON
Sr. Amalorpavam S.J
Secretary, Auxilium College.

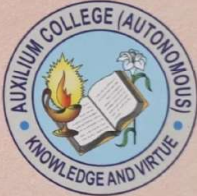
PATRONS
Dr. (Sr.) Regina Mary R
Principal, Auxilium College
Dr. (Sr.) Jaya Santhi A
Vice Principal - Shift I
Auxilium College
Dr. (Sr.) Mary Sheila Susairaj
Vice Principal - Shift II
Auxilium College

ORGANIZING SECRETARY
Dr. Devi N.R
Assistant Professor
Department of Physics
Auxilium College.

ORGANIZING COMMITTEE
Sr. Venci X
Ms. Shalini B
Ms. Amul B
Ms. Mary Jamila R
Ms. Archana S
Ms. Hemalatha M
Ms. Shiny Fabena A
Ms. Pavithra C
Ms. Gayathri R.D
Ms. Merlin Charlotte R

**NATIONAL CONFERENCE
ON
ADVANCED MATERIALS &
APPLICATIONS
(NCAMA - 2018)**

7TH SEPTEMBER 2018



Organized by

**PG DEPARTMENT OF PHYSICS
AUXILIUM COLLEGE (Autonomous)**
(Accredited by NAAC with 'A' Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore - 632006

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<p>We, the Management, Principal and the faculty of Physics Department cordially invite the faculty members, Research Scholars, Students of physics and chemistry of your institution to participate in the conference.</p> <p>Vellore The Historic place Vellore in Tamil Nadu is known for its Ancient fort, Golden temple, Christian Medical College (CMC) and Vellore Institute of Technology (VIT).</p> <p>About the College and the Department Auxilium College, founded in 1954, is the first women's college in the North Arcot district and now it is affiliated to the Thiruvalluvar University. Auxilium has been granted the status of autonomy by the UGC and the Thiruvalluvar University from the Academic year 2007-2008. It is a minority institution, established and administered by the daughters of Mary help of Christians commonly known as Salesian sisters of Don Bosco, belonging to the Catholic Church.</p> <p>THE MOTTO OF THE COLLEGE : "KNOWLEDGE AND VIRTUE"</p> <p>The main goal of the college is to produce in a Salesian atmosphere, integrally formed young women who will be agents of social transformation in today's India.</p> <p>The physics department has been functioning since the beginning of the college and major Physics (UG) was started in 1999 and Post Graduate (PG) in 2014.</p> <p>About the conference: Advanced materials are the basis of modern science and technology. Hence its area of research provides a broad scope for various potential applications.</p>	<p>The conference will provide a viable forum between the scientists, faculty members, research scholars and students to interact, gain knowledge and to present original research contributions in this field. We hope that the knowledge shared will be immensely helpful for pro-active research and publication pursuits for aspiring scholars and scientists.</p> <p>Topics to be Covered:</p> <ul style="list-style-type: none"> ➤ Crystal growth ➤ Nano materials ➤ Thin films ➤ Sensors ➤ Polymers ➤ Smart Materials ➤ Energy materials <p>RESOURCE PERSONS</p> <p>Dr. S. Gunasekaran Founder of Indian Spectrophysics Association Dean, Research and Development St. Peter's Institute of higher education and Research, Avadi, Chennai.</p> <p>Dr. I. Hubert Joe Associate Professor Mar Ivanios College Thiruvananthapuram Kerala</p> <p>Dr. S. Uthanna Professor Department of Physics Sri Venkateshwar University Tirupati</p>	<p style="text-align: center;">NATIONAL CONFERENCE ON ADVANCED MATERIALS & APPLICATIONS (NCAMA - 2018) 7TH SEPTEMBER 2018</p> <p style="text-align: center;">REGISTRATION FORM</p> <p>Name:</p> <p>Category: (Tick) Faculty/Research Scholar/ PG/UG Student</p> <p>Educational Qualification.....</p> <p>Paper Presentation : Yes/No</p> <p>If Yes, Title</p> <p>Mobile/Tel.no:</p> <p>E-mail ID:.....</p> <p>College Address:.....</p> <p>.....</p> <p>Registration fee Details : D.D No.</p> <p>Amount: Rs.....Date:.....</p> <p>Name of the Bank:.....</p> <p>Place:</p> <p>Place : Date:</p> <p style="text-align: right;">Signature of the Applicant</p>
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AUXILIUM COLLEGE - VELLORE

PG Department of Physics



07-09-2018

JAKBEGS - 96775 11697. 9994917367



07-09-2018

JAKBEGS - 96775 11697, 9994917367

Activity 3

International Workshop on Materials Technology and Applications was organized by Centre for Crystal Growth, Vellore Institute of Technology (VIT), Vellore, on 11-12 Oct 2018. Eighteen PG students accompanied by Sr. Venci (Asst. Prof) and Dr. N.R. Devi (Asst. Prof) participated in the International Workshop. This workshop was intended to explore the new areas of material science and Technology which includes Crystal growth, Thin film, Nanomaterials, Polycomposites and Materials etc. The PG students enthusiastically participated in the two days workshop and had a wonderful opportunity to listen the expert's lectures from National/International level. They also visited the various labs such as Centre for crystal growth, Thin film and Nanotechnology and Centre for Instrumentation etc.

Number of Beneficiaries: 32



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

The Management, Faculty, Staff and Students
cordially invite you to the Inaugural function of

**International Workshop on
Materials Technology and Applications**

Chief Guest

Prof. Michal Piasecki

Institute of Physics, J.Dlugosz University
Poland

Guests of Honour

Dr. NazmulAhsan

RCAST, University of Tokyo
Japan

Dr. Satoru Yoshimura

RCAMBT, Akita University
Japan

Prof. Yoshinori Takashima

Osaka University
Japan

Dr. G. Viswanathan

Founder & Chancellor
presides.

All are welcome !

Date : 11th October 2018, Thursday

Time : 10:00 A.M.

Venue : Dr. Ambedkar Auditorium, VIT Vellore

VIT - A place to learn; A chance to grow



1. Students and national/international delegates



2. PG students and staff with one of the international speaker

Activity 4

As an association activity, Guest lecture was conducted on 13th Dec 2018. The chief guest Dr. V. Gayathri, Asso., Prof, Thiagarajar College of Engineering, Madurai delivered a lecture on “Nanoscience and its Applications”. She explained the basics of nanoscience and its emerging applications as smart materials in various fields. He also proposed summer research Fellowship programs organized by various institutes like Indian Academy of Sciences, CLRI etc. Overall the talk was an inspiration and source of motivation for UG and PG students.

Number of Beneficiaries: 177



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Invited Guest Lecture On “Nanoscience and its Applications”
Organized by
PG Department of Physics
13th December 2018



Resource person
Dr. V. Gayathri
Associate Professor
Department of Physics
Thiagarajar College of Engineering
Madurai, Tamilnadu

Convenor
Dr. P. Nisha Sathakumari
Associate Professor & Head
Department of Physics
Auxilium College

Co-Convenor
Sr. X. Venci
Assistant Professor
Department of Physics
Auxilium College

Venue: Seminar Hall – Computer Block



Activity 5

On 31st January 2019, Quiz competition was conducted. Twenty-four students were teamed up into six groups. In general physics, 6 different questions were categorized into six different rounds. Based on the marks the winners were announced.

I prize: Margaret Martina N, Swetha S, Swathi D, Roshini B;

II prize: Devika N, Soundarya S.C, Sumitha S, Annal Jebaseeli I.

Number of Beneficiaries: 32





Auxilium College (Autonomous)
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Quiz Competition
Organized by
PG Department of Physics Association
31st January 2019

Participants : I & II PG Students

Convener
Dr. P. Nisha Santhakumari
Associate Professor & Head
Department of Physics
Auxilium College

Co-Convener
Ms. R. Mary Jamila
Assistant Professor
Department of Physics
Auxilium College

Venue: Seminar Hall – Computer Block



Activity 6

On 15th February 2019, Industrial visit to Vainu Bappu Observatory, Kavalur was arranged. Fifteen PG students accompanied by 4 faculty members stayed at kavalur and watched the night sky.

Number of Beneficiaries: 18





Sr. Vigneshwari
PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.


Association Activities (2017-2023)
PG & Research Department of Physics
Auxilium College (Autonomous)- Vellore- 6

Academic year : 2019-2020

Activity : 1

The inauguration of Physics association for the academic year 2019-20 was held on 17th July 2019. The Chief guest Dr. P. Seenuvasakumaran delivered the inaugural address and gave a lecture on the fascinating behaviour of “**Low dimensional materials**”. He explained how the physical and chemical properties of the matter can be tailored by bringing down its dimensions up to nanometres. 60 students were benefited.

Invitation


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Gandhi Nagar, Vellore – 632006.

PG AND RESEARCH DEPARTMENT OF PHYSICS
Organizes
INAUGURATION OF PHYSICS ASSOCIATION*
2019-2020

On 17th July, 2019 – Seminar Hall. Time : 2.30 p.m. – 3.30 p.m.

RESOURCE PERSON
Dr. P. Seenuvasakumaran ,
Associate Professor,
Department of Physics, Muthurangam Govt., Arts College, Vellore.

<p style="text-align: center;">Convenor Dr. P. NISHA SANTHAKUMARI Head & Associate Professor Department of Physics Auxilium College</p>	<p style="text-align: center;">Organizing Secretary Ms. R. Mary jayilla Assistant Professor Department of Physics Auxilium College</p>
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Activity 2

A group of ten MSc students accompanied by two faculty members attended the celebration of **92nd birth anniversary of Prof. M. K. Vainu Bappu**, 10th August 2019. Organized by Indian Institute of Astrophysics (IIPA), Vainu Bappu Observatory, Kavalur. An eminent astrophysicist Dr. Tushar Prabhu, Retired senior Prof., IIPA, Bengaluru delivered a special lecture on “Stellar Spectroscopy”. In the afternoon, speech competition on a specific topic related to astronomy and astrophysics was conducted for the colleges in and around Vellore. The II MSc students presented their speech on “Supernova” and won the second prize.

The winners were:

1. Ms. Revathi B, II MSc Physics
2. Ms Swetha S, II MSc Physics



Activity : 3

State level seminar on “Material Science” was conducted on 13th September 2019. More than 300 participants including students and academicians of various districts of Tamilnadu participated in the event. The objective of the seminar was to bring together the students and academicians of various fields to discuss on the scientific problems we currently face due to the limits of materials that are available and how they are used. Dr. A Mary Saral, Dean, School of Advanced Sciences, VIT delivered her inaugural address. She enumerated the different types of materials like biomaterials, smart materials and their enormous applications due to change of properties.

Expert lectures were delivered by Dr. A. Ruban Kumar, Prof., VIT, and Dr.R.Arivuselvi, Head & Assoc. Prof., Sri Vidhya Mandir Arts and Science College, Uthangarai. The students actively participated in Poster presentation, quiz and Act play competitions conducted in the afternoon. Dr.M. N. Arumugam, Dept. of Chemistry, Thiruvalluvar University, Vellore, delivered the valedictory address and distributed the prizes and certificates to the winners and participants. Above 300 students were benefited.

Invitation



Programme Schedule

9.00 am	: Registration
9.30 am	: Inauguration
10.00 am	: Inaugural address Dr. Mary Saral A Professor and Dean
10.30 am	:
10.50 am	: Invited Talk I Dr. Ruban Kumar A, Professor, Centre for Crystal Growth VIT University, Vellore
11.40 am	: Invited Talk II Dr. Arivuselvi R, Assistant professor PGD, Department of Physics Sri Vidhya Mandir Arts and Science College, Uthangara, Kollonai (Dt)
12.30 pm	: Lunch
1.30 pm	: Poster Presentation
2.00 pm	: Act Play Judge Dr. Vetraraj M, PG Asst. Physics Auxiliary H.S.S.
2.30 pm	: Quiz Competition
3.20 pm	: Valedictory and Distribution of Prizes Dr. Arumugam M,N Professor, Department of Chemistry Thiruvalluvar University, Vellore
4.00 pm	: Tea

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Audience





Poster Presentation



Quiz competition



13-09-2019

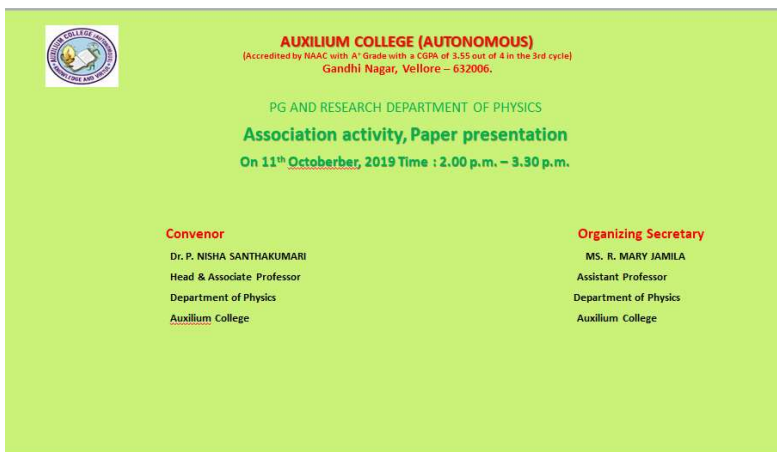
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Activity : 4

As an association activity, **paper presentation session** was conducted on 11th Oct 2019 at 2 pm in Computer block seminar hall. About 12 PG students eagerly participated and presented experimental procedures and characterizations on specific research topics. II PG students presented their summer project work on nano-materials, nonlinear materials, fabrication of glass etc. Based on their performance, the following I PG students were declared prizes. 35 students were benefited.

I prize : Ms.P. Raksha
II prize : Ms.V.Punitha
III prize : Ms. Dhanjana Devi.

Invitation



The invitation card features the Auxilium College logo in the top left corner. The text is centered and includes the college name, accreditation details, department name, event title, date and time, and the names and titles of the convenor and organizing secretary.

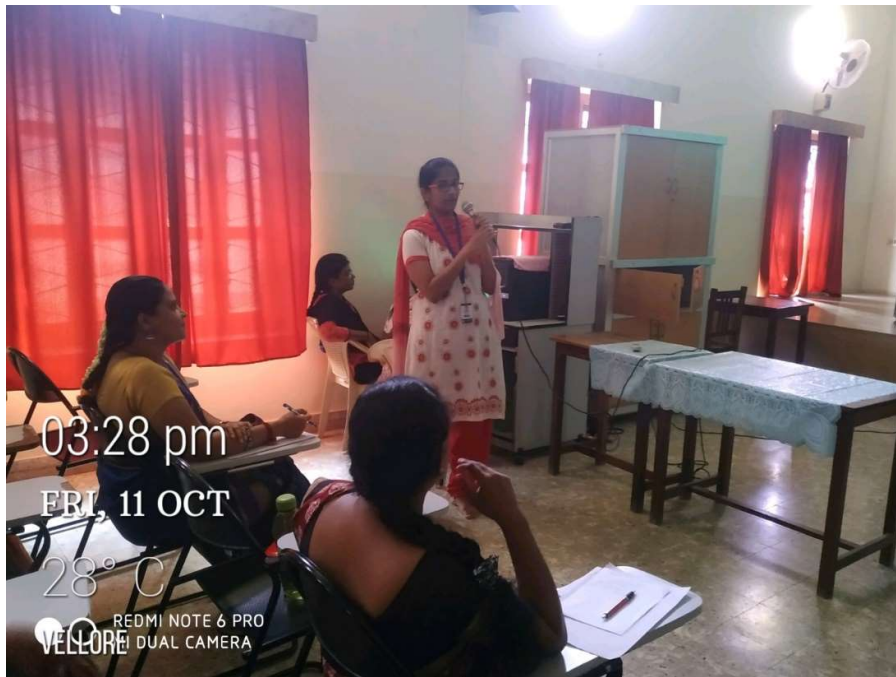
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Gandhi Nagar, Vellore – 632006.

PG AND RESEARCH DEPARTMENT OF PHYSICS

Association activity, Paper presentation
On 11th October, 2019 Time : 2.00 p.m. – 3.30 p.m.

Convenor
Dr. P. NISHA SANTHAKUMARI
Head & Associate Professor
Department of Physics
Auxilium College

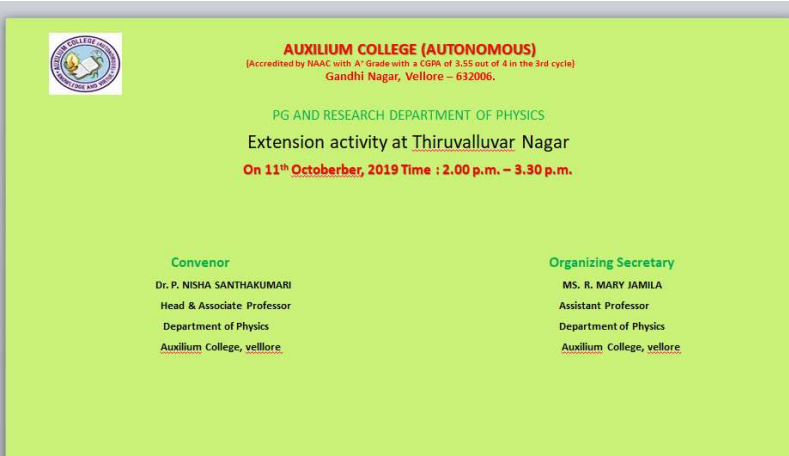
Organizing Secretary
MS. R. MARY JAMILA
Assistant Professor
Department of Physics
Auxilium College






Activity : 5

As an extension activity, PG students accompanied by faculty members went to nearby village, Thiruvalluvar Nagar on 16th Dec 2019. The students along with the faculty members visited the houses at Thiruvalluvar Nagar and interacted with them regarding their issues and sorrows; gave them awareness about the cleanliness and child's education. During the house visit students distributed the grocery items, clothes and other essentials. Later, the students hosted small play activity and competitions for the native children aged between 4 and 12 and distributed the school kits. Overall, this activity would have given an opportunity for students to understand the less fortunate sectors of the society and to extend their assistance according to their ability. 40 students were benefited.



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PG AND RESEARCH DEPARTMENT OF PHYSICS
Extension activity at Thiruvalluvar Nagar
On 11th October, 2019 Time : 2.00 p.m. – 3.30 p.m.

Convenor
Dr. P. NISHA SANTHAKUMARI
Head & Associate Professor
Department of Physics
Auxilium College, vellore

Organizing Secretary
MS. R. MARY JAMILA
Assistant Professor
Department of Physics
Auxilium College, vellore



Dr. Jyoti Sathya
PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

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Auxilium College (Autonomous)- Vellore- 6

Association Activity Report – 2020-2021

Activity 1

National Virtual Conference on “Novel Materials, Characterization and Applications” was organized by the Department of Physics on 9.6.2020 and 10.6.2020.. Dr. P. Nisha Santhakumari, Convener, Associate Professor and Head, introduced the resource person Dr. S. A. Martin BrittoDhas, Asst., Prof., Dept. of Physics, Abdul Kalam Research Centre, Sacred Heart College, Tirupattur. He delivered the lecture on “Switchable Materials and Applications”. Dr. N. R. Devi, Asst. Prof., introduced the resource person Dr. P. Seenuvasakumaran, Associate Professor, Department of Physics, Muthurangam Govt. Arts College, Vellore. He delivered the lecture on “Characterization of Materials by Powder X-ray Diffraction Technique”. On 10th June, Dr. S. Gunasekaran, Founder of Indian Spectrophysics Association, Dean, Research and Development, St. Peter’s Inst. of Higher. Education and Research, Avadi, Chennai delivered the talk on “ATR Technique – A Boon to FTIR Spectroscopy for Characterization of Novel Materials”. E-certificates were issued to all the participants. More than 200 participants participated from all over India. Organizers and resource persons get connected through google meet platform and YouTube Live.

Invitation

National Virtual Conference on
NOVEL MATERIALS, CHARACTERIZATION AND APPLICATIONS
9-10, June 2020
Organized by
Department of Physics

AUXILIUM COLLEGE (Autonomous)
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Gandhi Nagar, Vellore- 632006

Resource Persons

CHIEF PATRON
Sr. Alice K.T. Secretary

PATRON
Dr. (Sr.) Regina Mary R
Principal

Co-Patrons
Dr. (Sr.) Sumathi M.
Vice Principal - Shift I
Dr. (Sr.) Amala Valarmathy A.
Vice Principal - Shift II

Co-ordinator
Dr. P. Nisha Santhakumari
Head of the Dept.

Organising Secretaries
Sr. Venci X.
Dr. Devi N.R.

Organising committee
Ms. Shalini B.
Ms. Anuja B.
Ms. Mary Jamila R.
Dr. Saranya P. E.
Dr. Priyadarshini A.
Ms. Rajalakshmi B.
Ms. Reja S.

Dr. S. Gunasekaran
Founder of Indian Spectrophysics Association
Dean, Research & Development,
St. Peter's Inst. of Hr. Education & Research, Avadi, Chennai.

Dr. P. Seenuvasakumaran
Associate Professor, Dept. of Physics
Muthurangam Govt. Arts College, Vellore.

Dr. S. A. Martin Britto Dhas
Assistant Professor, Dept. of Physics
Abdul kalam Research Centre, Sacred Heart College, Tripattur.

PG students, Research Scholars and Faculty can attend
Free Registration / E-Certificates will be provided to those
who attend all the sessions.
E-mail: devicnt@gmail.com

Register

<https://tinyurl.com/acknma>

Dr. P. Nisha Santhakumari, 9443864950
Dr. N. R. Devi, 9790447244

Virtual Conference Session I

People (135) Chat

thankyou to the organizers

Krishna Veni 12:33 PM
Thanks organizers for a wonderful session

vaniraja nandhini 12:33 PM
Nice presentation. Thank u

Raksha Palani 12:33 PM
Nice session. tq organizers

Apama Devi 12:33 PM
Thank you organizers

Dr. Ramana R 12:33 PM
informative Session, please send feedback. thank you

Vijayalakshmi Sanyal 12:35 PM
Madam myvideo is blocked

Send a message to everyone

Virtual Conference Session I

Turn off captions Resume your presentation?

Kannan Subramanian bagyalakshmi priya Dr. G. NARAYANA SAMY

P Manikandan
Time is it?

Virtual Conference Session I

Turn off captions Resume your presentation?

You 12:36 PM
<https://forms.gle/AV9kpxkVwVcRtl19>
feed back form

Suman Pawar 12:36 PM
Links

Send a message to everyone

Activity 2

An **International Webinar** on “Nanotechnology in Aerospace” was organized on Monday, 22nd June 2020 from 10:00a.m. to 12:00 p.m. Dr. R. Sarjila, Assistant Professor, organized the event. Prof. P. NishaSanthakumari, Head, Dept. of Physics welcomed the gathering and introduced resource person of session 1, Dr. V. E. Arkhincheev, Professor, Department of Physics, Buryat State University, Russia. He delivered the talk on “Nanotechnology and its Applications”. Sr. X. Venci, Asst. Prof., introduced resource person of session-2, Dr. E. James Jebaseelan Samuel, Sr. Professor, School of Advanced Sciences, Vellore Institute of Technology, Vellore. He delivered the lecture on “Nanotechnology in Aerospace”. Mrs. Mary Jamila, Asst. Prof., and Dr. N. R. Devi, Asst. Prof., handled the questions and discussion part of the sessions respectively. E-Certificates were distributed to all the registered participants. More than 150 participants including PG Students, Research Scholars and Faculty from India and abroad (Russia, Singapore, Oman, Muscat and China) participated. 158 participants are benefited through the live sessions via YouTube live platform with chat support.

Invitation



The poster features a blue background with a white molecular structure pattern. At the top left, there is a YouTube logo and a 'Click to Register' button. The top right corner contains the Auxilium College logo and name, along with accreditation details. The central text announces the webinar on 'Nanotechnology in Aerospace' on Monday, 22nd June 2020, organized by the Department of Physics. Below this, two sessions are listed with their respective speakers and titles. A list of expected participants and registration details is provided, along with contact information for the organizing secretary and a QR code for further correspondence.

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Gandhi Nagar, Vellore- 632006

International Webinar on
Nanotechnology in Aerospace
Monday, 22nd June 2020

Organized by
Department of Physics

Chief Patron
Sr. Alice K.T. Secretary

Patron
Dr. (Sr.) Regina Mary R.
Principal

Co-Patrons
Dr. (Sr.) Sumathi M.
Vice Principal - Shift I

Dr. (Sr.) Amala
Valarmathy A.
Vice Principal - Shift II

Head of the Department
Dr. P. Nisha
Santhakumari

Organizing Secretary
Dr. R. Sarjila

Session – 1: 10:00am to 11:00 am
Dr. V. E. Arkhincheev
Professor, Department of Physics,
Buryat State University, Russia

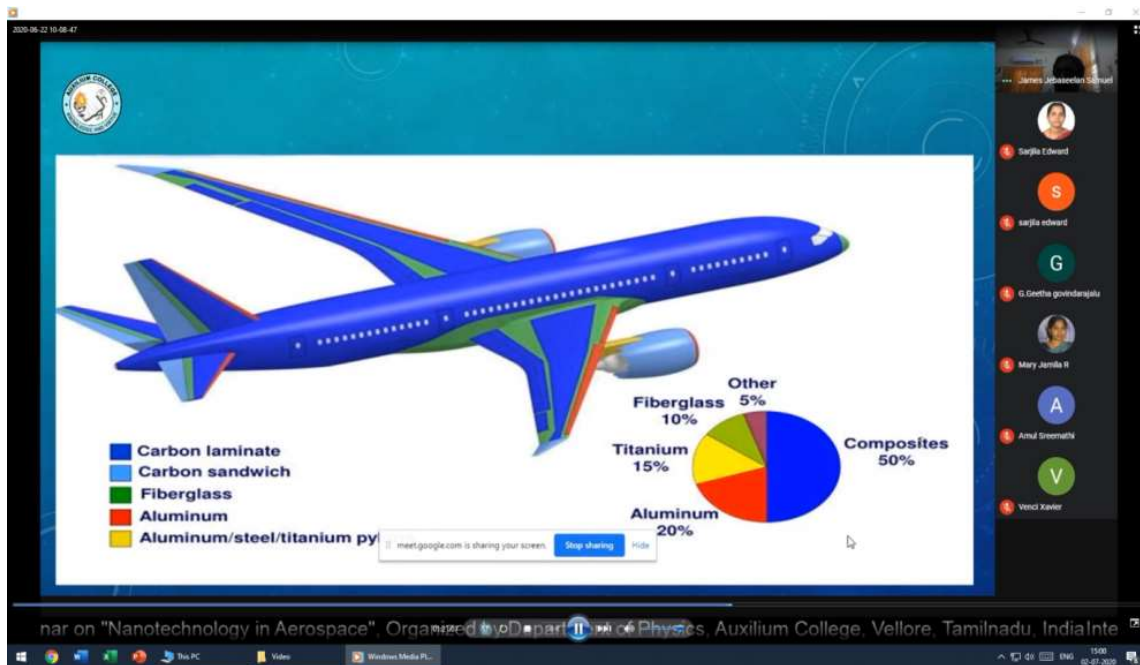
Session – 2 :11:00am to 12:00 pm
Dr. E. James Jebaseelan Samuel
Sr. Professor, School of Advanced Sciences,
Vellore Institute of Technology, Vellore

Expected Participants
PG students, Research Scholars and Faculty can attend.

- Registration is free.
- Only interested participants are expected to register.
- E-Certificate will be provided to those who attend both the sessions.

For further correspondence
Dr. R. Sarjila, Organizing Secretary
+91-8015153323, sarjiladevi@gmail.com






Activity 3

:

The **inauguration of Physics association** for the academic year 2020-21 was held on 4th November 2020 using Google meet platform. The Chief Guest of the day was Dr. M. Saravanakumar, Assistant Professor, Department of Physics, Muthurangam Govt., Arts College, Vellore. The event started at 2.30 pm with a short prayer service. The chief guest Dr. M. Saravanakumar delivered the inaugural address. He gave a talk on “Smart Materials” and explained how the properties of the materials (piezoelectric, magnetostrictive and shape memory alloy) get changed in response to various conditions such as temperature, light, pressure, voltage, pH and chemical compounds. He also enumerated the wide range of applications of such materials such as shape control, energy harvesting, vibration control and structural health monitoring. 75 students were benefited.



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PG AND RESEARCH DEPARTMENT OF PHYSICS
Organizes
INAURATION OF PHYSICS ASSOCIATION”
2020-2021
On 04th NOV, 2020 – Google meet. Time : 2.30 p.m. – 3.30 p.m.

RESOURCE PERSON
Dr. M. Saravanakumar,
Assistant Professor,
Department of Physics, Muthurangam Govt., Arts College, Vellore.

Patron Dr. (Sr.) Alice K.T. Secretary	Patron Dr. (Sr.) JAYA SANTH I R Principal	Co-Patron Dr. (Sr.) AMALA VALARMATHY (Vice Principal – Shift I) Sr. JULIANA AGNES VICTOR (Vice Principal – Shift II)
Convenor Dr. P. NISHA SANTHAKUMARI Head & Associate Professor Department of Physics Auxilium College		Organizing Secretary Ms. Mary jamila Assistant Professor Department of Physics Auxilium College

Meet - kgg-cged-vop x Meet - Inauguration of Phys... x Auxilium College Anthem, Vello... x +

meet.google.com/gpv-feyv-van

Apps Naive Bayes classi... Google Meet Serial Data Input/O... Serial Communicati... Tabular difference b... 8051 Uart Commun... Sent Mail - saranya... Other bookmarks

Dhanalakshmi S and 13 more 42 3:23 PM You

Shalini B M. Saravana K... Prashanthini ... Nisha Santha... M. Saravana K... Mary Jamila R P Roshini sangeethakge... Dharani Anan...

THILO K Jeevitha Gane... Raksha P MANISHA P Nishanthini Ni... Kanimozhi M T Rakshana S Vani Vanitha Venila Boopa...

Sharika Vinay... Jerit, G. Jashni Shupriya Mad... Yuvashree Yuva Kiruthika Kirut... sindhubharath... jayasree rajen... MONIKA DHA... Kaviya Vikashi...

Inauguration of Physics Association2020-21 ^

Turn on captions Present now

Activity 4

A National level Faculty Development Program (FDP) on “Research Trends in Physics & Electronics” was conducted in collaboration with the Department of Physics & Electronics, Little Flower Degree College, Hyderabad, from 27th January to 1st February 2021. The aim of this FDP was to bring together the emerging & concurrent ideas in the fields of Physics & Electronics onto a common spectrum. The eminent speakers from various reputed institutions delivered their lectures on their field of expertise. Almost 34 participants have participated in 6 days FDP and empowered their knowledge on new realms of Research & Development.



LITTLE FLOWER DEGREE COLLEGE
UPPAL, HYDERABAD
(Department of Physics & Electronics)

IN
COLLABORATION WITH
AUXILIUM COLLEGE, VELLORE
ORGANIZES
NATIONAL LEVEL
FACULTY DEVELOPMENT PROGRAMME
ON
RESEARCH TRENDS IN PHYSICS
AND ELECTRONICS

Time : 2:00 PM- 3:00 PM

FROM
27th JAN 2021
TO
1st FEB 2021

CLICK HERE FOR
REGISTRATION

Target Audience
Faculty
Research Scholars

PLATFORM
Meet

Note: E-Certificates will be provided to the attendees of all the sessions only.

About FDP

The Faculty Development Programme aims to bring together the emerging and concurrent ideas in the fields of Physics and Electronics, onto a common spectrum.

Key Highlights & Takeaways

- Unique Learning and Development forum for Research Enthusiasts
- Platform to empower faculty on new realms of Research & Development
- Consolidation & Internalization of best practices
- Share, Demonstrate & Learn New Research Techniques

SPEAKERS

Day 1 27-01-2021
SPEAKER: Dr. Manoj Balachandran,
Associate Professor
Christ University, Bengaluru
TOPIC: Carbon Nano Materials

Day 2 28-01-2021
SPEAKER: Dr. P. Chandrasekhar,
Professor
Osmania University, Hyderabad
TOPIC: Embedded Systems

Day 3 29-01-2021
SPEAKER: Dr. C. Mani Kumar,
Assistant Professor
Gitam University, Vizag
TOPIC: Internet Of Things

Day 4 30-01-2021
SPEAKER: Dr. R. Satyawathi,
Associate Professor
KL University, Hyderabad
TOPIC: Raman Spectroscopy and its
Biomedical Applications

Day 5 31-01-2021
SPEAKER: Dr. Amit Chaturvedi,
Scientist 'F', DRDL, Hyderabad
TOPIC: Indian Missile Program

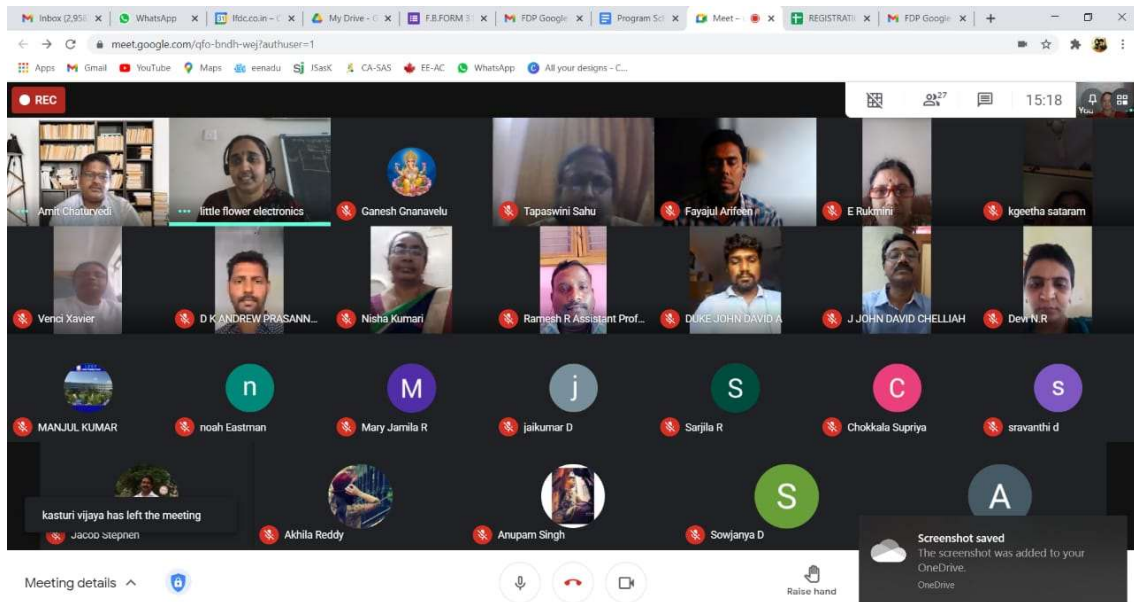
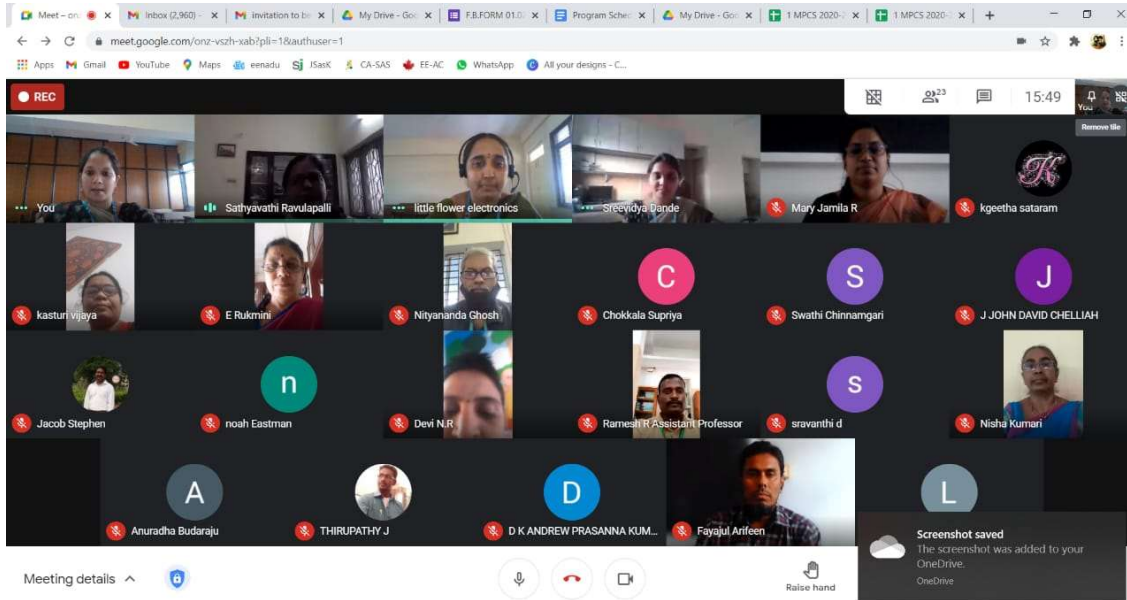
Day 6 01-02-2021
SPEAKER: Dr. Chandrasekhar,
Technical Manager
BDL, Hyderabad
TOPIC: Research Opportunities In Applied
Physics & Electronics

CHIEF PATRON:
Rev. Bro. Vincent Reddy, Principal, LFDC, UPPAL
Dr. Sr. Jaya Santhi R, Principal, Auxilium college Vellore

PATRON:
Mrs. P. Jayanthi Reddy, Vice-Principal, LFDC, Uppal
Sr. Sumathi, Vice-Principal, Auxilium college, Vellore

Co-ordinators:
Dr. Nisha Santhakumari P, HOD, Physics, Auxilium College.
T. Nagalakshmi, HOD, Electronics, LFDC.
G. Sreelekha, HOD, Physics, LFDC.

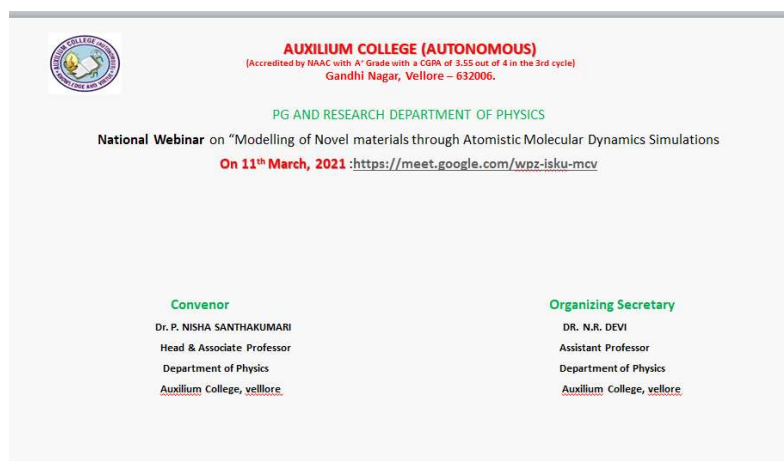
9963371972
9494565245
phynele@lfdc.edu.in




Activity 5

National Webinar on “Modelling of Novel materials through Atomistic Molecular Dynamics Simulations “ was conducted on 11th March 2021, using Google meet platform. The session was organized and hosted by Dr.N.R.Devi, Assistant Professor, Department of Physics. The Chief Guest, Mr.Harender Kumar, Application Engineer, Integrated Microsystem, Gurgaon, delivered his talk on “Atomic-scale modelling made easy with Synopsys Quantum ATK”. He gave complete explanation about the software and demonstrated how to use tools in various modelling conditions. It was an interactive session and well appreciated by the participants. Around 60 participants participated from all over India and E-certificates were issued to all the participants.

Invitation



The invitation card features the logo of the Tamil Nadu State Council of Higher Education on the top left. The text is centered and includes the college name, accreditation details, department name, webinar title, date, and contact information for the convenor and organizing secretary.

 **AUXILIUM COLLEGE (AUTONOMOUS)**
(Accredited by NAAC with 'A' Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 632006.

PG AND RESEARCH DEPARTMENT OF PHYSICS

National Webinar on “Modelling of Novel materials through Atomistic Molecular Dynamics Simulations
On 11th March, 2021 :<https://meet.google.com/wpz-isku-mcv>

Convenor
Dr. P. NISHA SANTHAKUMARI
Head & Associate Professor
Department of Physics
Auxilium College, vellore.

Organizing Secretary
DR. N.R. DEVI
Assistant Professor
Department of Physics
Auxilium College, vellore.

Slide 1 | WhatsApp | Meet - wpz-isku-mcv | meet.google.com/wpz-isku-mcv | 3:42 PM

REC | Harender Kumar is presenting | Nisha S and 32 more

Atomic-scale modelling made easy with Synopsys QuantumATK

Harender Kumar
Application Engineer
Integrated Microsystem
Gurgaon, HR, IN.

Representatives of:
SYNOPSIS
Academic Tools Virtual Nanolab

Participants: You, Harender Ku..., kattu gis, Mohanraj P, Devi N.R, Reena Devi S, Nisha Kumari, Mary Jamila R, Sarjila R, MOHANRAJ..., Dr. Rajeswar..., சஞ்சலதர...

Meeting details | Raise hand | Turn on captions | Harender Kumar is presenting

Taskbar: Meet - wpz-isku-mc..., webinar 2021 doc.do...

Slide 1 | WhatsApp | Meet - wpz-isku-mcv | meet.google.com/wpz-isku-mcv | 3:47 PM

REC | Harender Kumar is presenting | Janani Janani and 29 more

QuantumATK Simulation Platform

QuantumATK Platform

- System Configurations
- Nanolab GUI
 - Atomic 3D Builder: Visualize 2D and 3D structures
 - View Results: Visualize NEGF results
 - Set Up Calculations: Prepare input files with Script Generator
 - Python Scripts: Write Your Own Custom Scripts
- Databases: Import Ready-to-Use Structures
- Advanced Analyses: Use Flexible Tools for Complex Studies
- Job Manager: Execute and Manage Local & Remote Jobs
- Nanolab Links: Link to External Simulation Engines

Simulation Engines: QM/MM (NEGF), Semiempirical (NEGF), Forcefield (NEGF), TOAD, SPICE

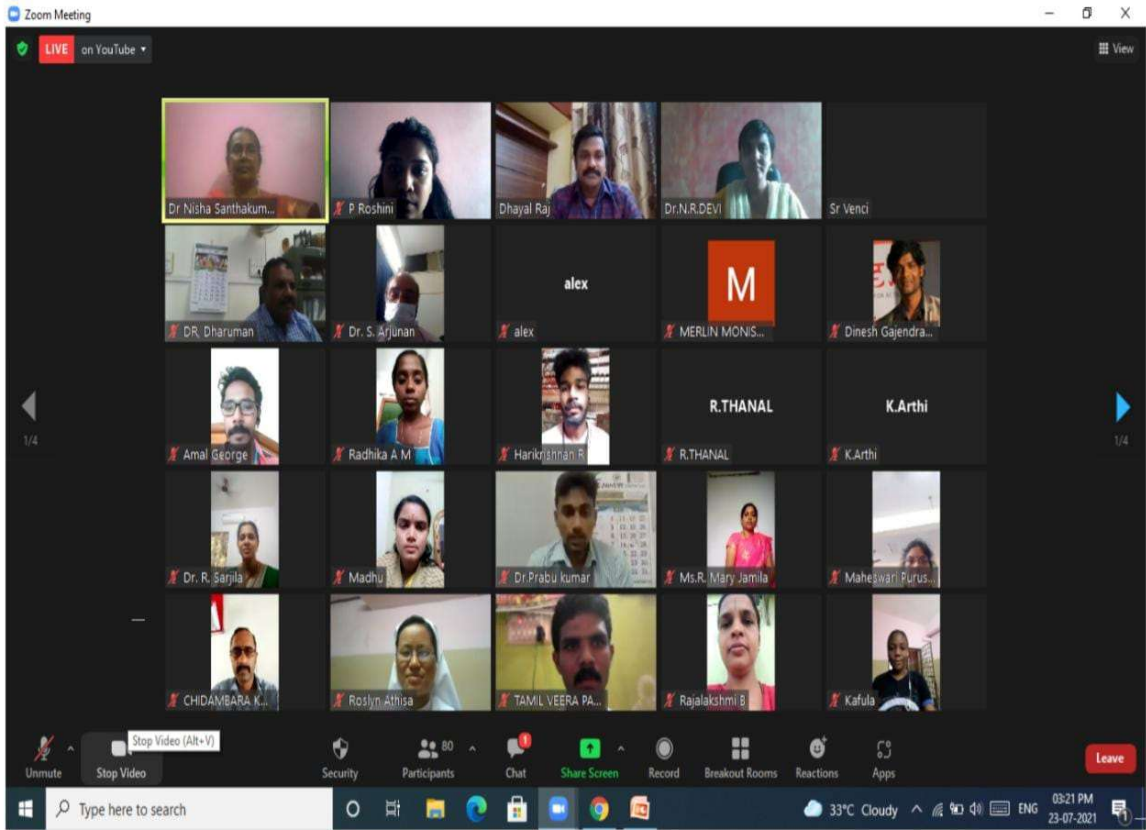
<https://www.synopsys.com/silicon/quantumatk/resources/feature-list.html>
Integrated Microsystem
Gurgaon, HR, IN.

www.quantumwise.com | www.ims-india.org

Participants: You, Harender Ku..., kattu gis, Divya M, Devi N.R, Reena Devi S, Nisha Kumari, Mary Jamila R, Sarjila R, MOHANRAJ..., Dr. Rajeswar..., Siddharthan N

Meeting details | Raise hand | Turn on captions | Harender Kumar is presenting

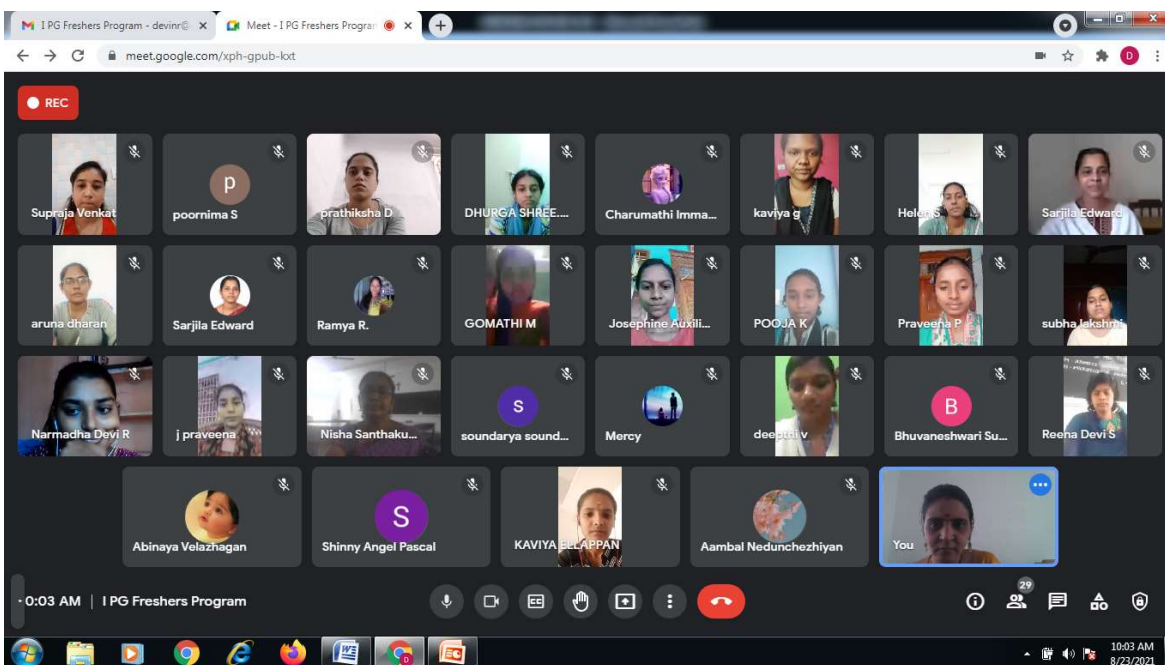
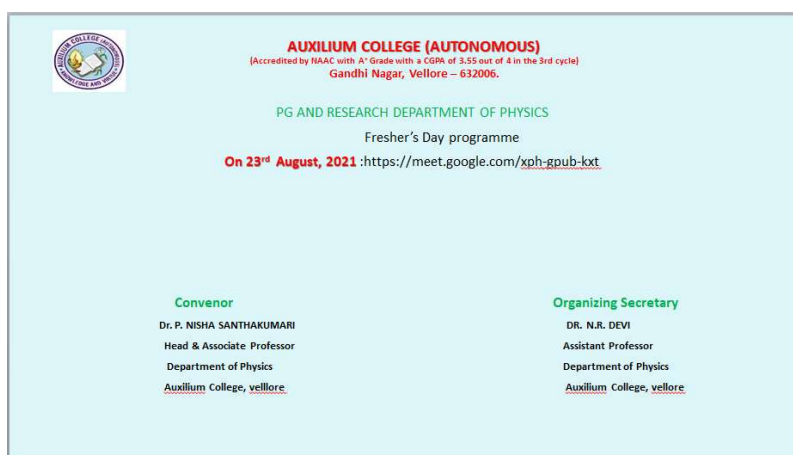
Taskbar: Meet - wpz-isku-mc..., webinar 2021 doc.do...



Activity 7

Fresher's Day programme for I PG Physics students was organized by PG Department of physics, Auxilium College, Vellore on August 23, 2021 at 9.00 am through Google meet. The programme was headed by Dr.P.Nisha Santhakumari, Head, Asso. Prof of Physics, Auxilium College, Vellore. The programme was organized by the students of II M.Sc Physics to welcome their juniors. The I M.Sc. students participated actively in all the events with more interest.

Invitation



Dr. P. Nisha Santhakumari
PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

Auxilium College(Autonomous), Vellore

PG Department of Physics

Association Activities Academic Year: 2021-2022

Activity I

International webinar on “Sensors and Applications” was conducted during 22-23 July 2021 through Zoom meet and also through YouTube live stream. More than 220 participants including PG students, research scholars and academicians of India and abroad participated in the event. The objective of the seminar was to bring together the students and academicians in India and abroad working on this field to discuss on the importance of Sensors and its various applications in industries as well as in our day today life. The participants actively participated to enhance their knowledge.

Session 1:Dr.SriRanjiniArumugam, Senior Scientist, Leipzig University, Leipzig, Germany delivered her talk on Nitrogen vacancy centre in diamond as a Sensor and enumerated its various applications.

Session 2:Dr. A. Dhayal Raj, Asst. Prof., Sacred Heart College, Tirupattur. Dr.A. Dhayal Raj delivered a talk on Metal oxide gas sensors and its various applications.

Session 3:Mrs. Martin Britto Dhas, Asst. Prof., Sacred Heart College, Tirupattur gave a lecture on Shock wave and explained how it functions as a tool for Sensor applications.

Number of beneficiaries: 220



AUXILIUM COLLEGE (AUTONOMOUS)

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Gandhi Nagar, Vellore-6, Tamil Nadu, India.

International webinar on “Sensors and Applications”

22 - 23 July 2021

Organized by Department of Physics

CHIEF PATRON

Sr. Alice K T.
Secretary

PATRON

Dr (Sr.) Jaya Santhi R.
Principal

Co-Patrons

Sr. Sumathi M.
Vice Principal-Shift I
Dr (Sr.) Amala Valarmathy A.
Vice Principal -Shift II

Coordinator

Co-Patrons

Sr. Sumathi M.
Vice Principal-Shift I
Dr (Sr.) Amala Valarmathy A.
Vice Principal -Shift II

Coordinator

Dr. P. Nisha Santhakumari
Head of the Dept.

Organizing Committee

Sr. Venci X.
Ms. Mary Jamila R.
Dr. Devi N.R.
Dr. Sarjila R.
Dr. Reena Devi S.
Ms. Helen S.

RESOURCE PERSONS

Dr. Sri Ranjini Arumugam

Senior Scientist
Wilhelm Ostwald Institute of Physical and Theoretical chemistry
Leipzig university
Leipzig, Germany.

July 22 (3 pm to 4 pm) – Nitrogen vacancy center in diamond as a sensor and applications

Dr. A. Dhayal Raj

Associate professor, Dept. of Physics
Leipzig, Germany.

July 22 (3 pm to 4 pm) – Nitrogen vacancy center in diamond as a sensor and applications

Dr. A. Dhayal Raj

Associate professor, Dept. of Physics
Sacred Heart College
Tirupattur.

July 23 (2 pm to 3 pm) – Metal Oxide Gas Sensors

Dr. S. A. Martin Britto Dhas

Assistant Professor, Dept. of Physics
Sacred Heart College
Tirupattur.

July 23 (4 pm to 5 pm) – Shock wave: A new tool for sensor applications

PG Students, Research scholars and Faculty members can attend. Free registration. E- Certificates will be provided to those who attend all the sessions and submit the feedback form.

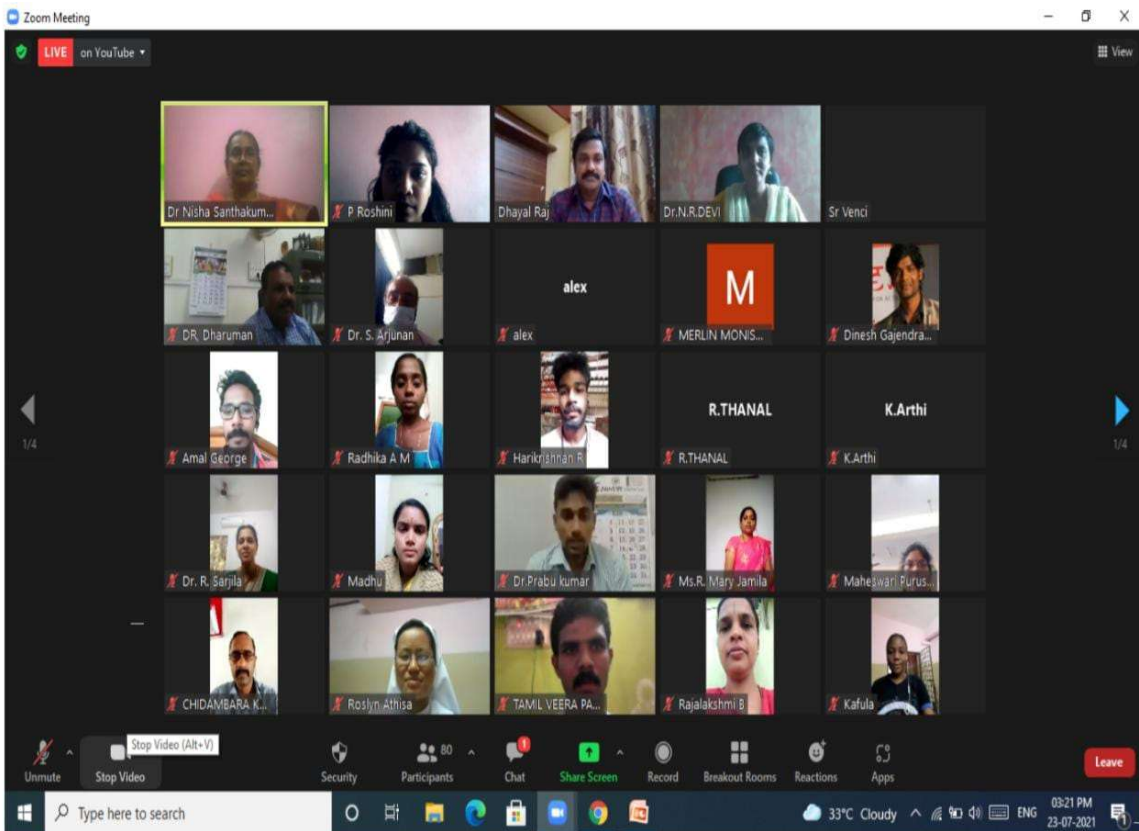
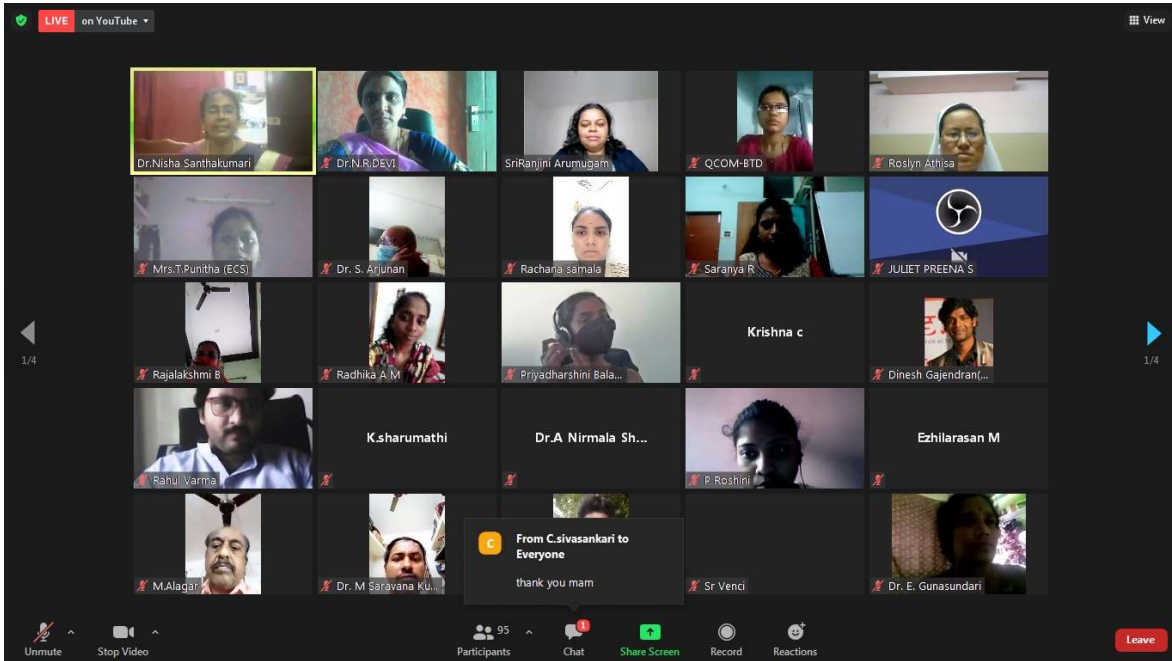
Contact details:

Mail id: nishas@auxiliumcollege.edu.in

Phone: +91 96298 39040



Google Meet



Activity 2

The PG Physics Association Inauguration for the academic year 2021-2022 was conducted on 25th August, 2021 through Google meet at 3.30 pm. Dr.T.Theivasanthi, Asso.Prof, International Research centre, Kalasalingam University, Madurai was invited as a chief guest. Dr.T.Theivasanthi delivered a talk on Antibacterial activities of silver nanoparticles by blending starch nanoparticles, synthesis of graphene and metal oxide nanoparticles, preparation of medicine from plant nanoparticles for Diabetics and various diseases.

Number of beneficiaries: 39

Invitation:



AUXILIUM COLLEGE (AUTONOMOUS)

(Accredited by NAAC with A⁺ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)

Gandhi Nagar, Vellore – 632006.

Organized By

PG AND RESEARCH DEPARTMENT OF PHYSICS

On 25th August, 2021 – Google meet. Time : 3.30 p.m. – 4.30 p.m.

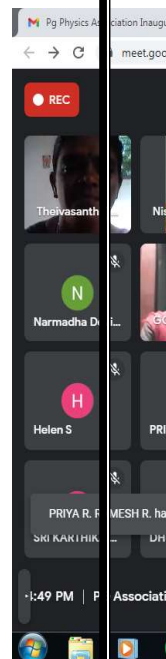
RESOURCE PERSON

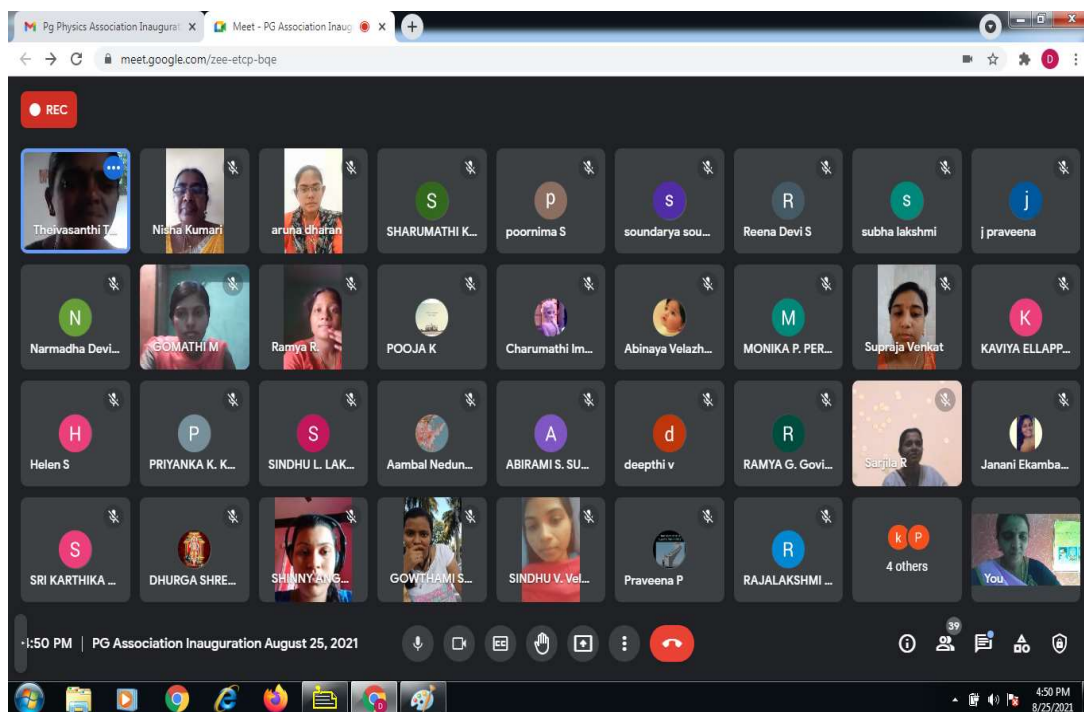
Dr. T. Theivasanthi,
Asso. Prof. International Research Centre,
Kalasalingam University, Madurai

Convenor

Dr. P. NISHA SANTHAKUMARI
Head & Associate Professor
Department of Physics
Auxilium College

Organizing secretary
Dr. N. R. DEVI
Assistant Professor
Department of Physics
Auxilium College





Activity 3

“International Webinar on Emerging Smart Materials in Science and Technology in Modern Era” was organized by PG Department of Physics on 13-14th September 2021 at 3 p.m. through google meet. Dr.N.R.Devi introduced the resource person Dr.P.Karthick Kannan, BK21+ Research Professor, Department of Chemistry, Sungkyunkwan University, Republic of Korea and also welcomed the gathering. He enriched us with his unique presentation on “Electrochemical Impedance Spectroscopy” and also explained about electrochemical gas sensors and its applications. The Second session of the webinar started on 14th September, 2021 at 3 p.m.through google meet. On behalf of organizing committee Miss. Helen, Assistant Professor, Organizing Secretary (ESMST-2021), Department of Physics, Auxilium College gave a warm welcome speech and introduced the chief guest of the day Dr. E. Senthilkumar, Research Assistant Professor, Department of Physics, SRM University, Kattankullathur, Chennai. He gave his lecture on the topic of “Smart Materials for Science and Technology in Modern Era”. He explained about the synthesis of MoWS using CVD. He also explained about the electrical and chemical properties of nanomaterials controlled by adding dopant. He gave outline about 2D nanomaterials Graphene and its optoelectronic device applications.

Number of beneficiaries: 75

Chief patron
Sr. Alice.K.T
Secretary

Patron
Dr.(Sr.) Jeya shanthi.R
Principal

Co-patron
Dr.(Sr.) Sumathi.M
Vice Principal (Shift I)

Dr.(Sr.) Amala Valarmathy.A
Vice principal (shift II)

Co-ordinator
Dr. P. Nisha Shanthakumari
Head & Associate professor
Department of Physics
Auxilium college

Organizing secretary
Dr. Devi.N.R
Assistant professor
Auxilium college

Organizing committee
Sr. Venci.X
Mrs. Mary Jamila.R
Dr. Sarjila.R
Dr. Reena devi.S
Ms. Helen



Auxilium College (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar Vellore - 632006

International Webinar On Emerging Smart Materials In Science & Technology In Modern Era

Organised by

PG Department Of Physics On 13th & 14th September 2021, at 3pm

Resource persons



Dr. Padmanathan Karthick kannan
BK21+ Research Professor
Department of chemistry
Sungkyunkwan University
Republic of Korea



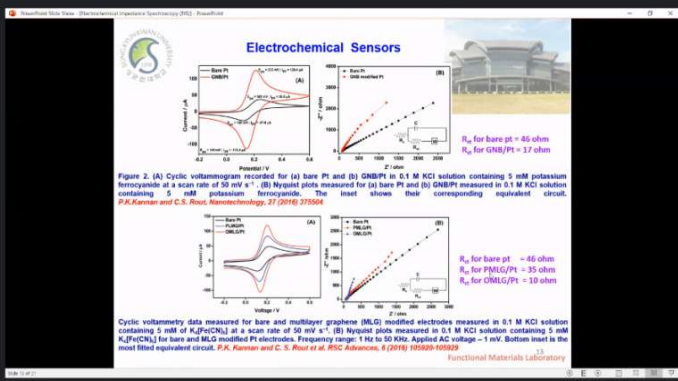
Dr. E. Senthil Kumar
Research Assistant professor
Department of physics
SRM University
Kattankulathur, Chennai

Platform: Google Meet
PG students, Research scholars and Faculty members can attend.
Free Registration / E-Certificates will be provided to those who attend all the sessions.
E-mail: devinr@auxiliumcollege.edu.in

Dr. P Nisha Shanthakumari, 9443864950
Dr. N. R. Devi, 9790447144

materials in science and techn... | Auxilium college - Webinar - ... | Meet - I PG Classical Mec... | Meet - I PG Classical Mechani... | Meet - myo-nmw-mbj

meet.google.com/myo-nmw-mbj?authuser=0



Electrochemical Sensors

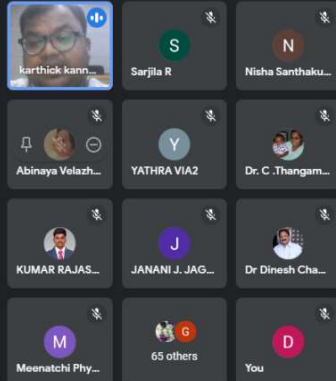
Figure 2. (A) Cyclic voltammogram recorded for (a) bare Pt and (b) GNB/Pt in 0.1 M KCl solution containing 5 mM potassium ferrioxalate at a scan rate of 50 mV s⁻¹. (B) Nyquist plots measured for (a) bare Pt and (b) GNB/Pt measured in 0.1 M KCl solution containing 5 mM potassium ferrioxalate. The inset shows their corresponding equivalent circuit.

P.K.Kannan and C.S. Rout, Nanotechnology, 37 (2016) 375044

R_{ct} for bare pt = 46 ohm
 R_{ct} for GNB/Pt = 17 ohm

Cyclic voltammetry data measured for bare and multilayer graphene (MLG) modified electrodes measured in 0.1 M KCl solution containing 5 mM of $K_3[Fe(CN)_6]$ at a scan rate of 50 mV s⁻¹. (B) Nyquist plots measured in 0.1 M KCl solution containing 5 mM $K_3[Fe(CN)_6]$ for bare and MLG modified Pt electrodes. Frequency range: 1 Hz to 50 KHz. Applied AC voltage = 1 mV. Bottom inset is the most fitted equivalent circuit. *P.K. Kannan and C. S. Rout et al. RSC Advances, 8 (2018) 105929-105929*

REC

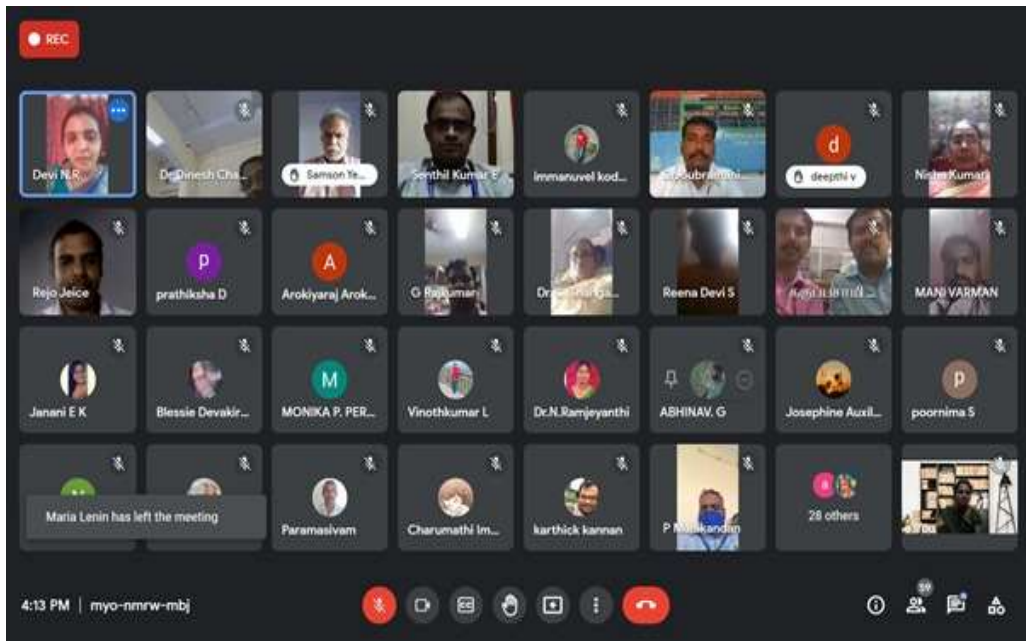


karthick kann... | Sarjila R | Nisha Santhaku...
Abinaya Velazh... | YATHRA VIA2 | Dr. C. Thangam...
KUMAR RAJAS... | JANANI J. JAG... | Dr Dinesh Cha...
Moenatchi Phy... | 65 others | You

3:40 PM | I PG Classical Mechanics

3:40 PM 9/13/2021

40



Activity 4

On 13th October 2021, Dr. A.P.J. Abdul Kalam's memorial lecture was organized by Department of physics, Auxilium College, Vellore on behalf of his 90th birthday celebration and world student's day. It was started at 8.30 am through the platform Zoom. Mrs. Mary Jamila, Assistant Professor, Department of Physics, Auxilium College, Vellore introduced the resource person of the day Dr. P. Seenuvasa Kumaran, Associate Professor, Department of Physics, Muthurangam Govt. Arts college, Vellore and welcomed the gathering. He gave an incredible talk on the topic of "Physics For Low Dimensional Materials" with the outline about the basics of nanoscience and nanotechnology and he also explained about its amazing properties at the nanoscale. He also gave a talk about how we are travelling with physics in our day today life and delivered about metallic nanoparticles and quantum dots.

Number of beneficiaries: 165

Number of beneficiaries: 22

CHIEF PATRON Sr. Alice K.T. Secretary		AUXILIUM COLLEGE (Autonomous) (Accredited by NAAC with A* Grade with a CGPA of 3.55 out of 4 in the 3 rd cycle) Gandhi Nagar, Vellore- 632006
	PATRON Dr. (Sr.) Jeya Shanthi R. Principal	Dr. A. P. J. ABDUL KALAM'S MEMORIAL LECTURE Organized by Department of Physics on 13 th October, 2021
	Co-Patrons Dr. (Sr.) Sumathi M. Vice Principal - Shift I	RESOURCE PERSON Dr. P. SEENUVASAKUMARAN Associate Professor Department of Physics Muthurangam Govt. Arts College Vellore
	Dr. (Sr.) Amala Valarmathy A. Vice Principal - Shift II	Title : Physics for Low Dimensional Materials Time : October 13, 2021 @ 9.00 – 10.00 am
Co-ordinator Dr.P.Nisha Santhakumari Head & Associate Professor Auxilium College nisantha.robert@gmail.com	Participants : UG and PG Students of Physics Department Platform : ZOOM	
ORGANIZING SECRETARY Dr. Devi N.R. Assistant Professor Auxilium College devinr@auxiliumcollege.edu.in		
Organizing committee Staff Members of UG and PG Physics Department.		



Activity 5

On 10th December 2021, Science spectacle and Awareness Program – Science Exhibition was organized by PG Department of Physics in order to give awareness to students about Conservation of energy and energy harvesting. This event was organized by Dr. S. Reena Devi, Co-ordinator, Innovative program, Department of Physics, Auxilium College. Students from other disciplines of Auxilium College, Auxilium School and Auxilium College of education were invited for the exhibition. The program started with a prayer song and was inaugurated with ribbon cutting by Dr.(Sr). R. Jaya Santhi, Principal, Auxilium College and Dr.(Sr). Jacintha, Vice Principal (shift –I), Auxilium College. Many models and posters were presented by PG students focussed on the concept of energy conservation in the field of Solar energy, Wind energy, Mechanical Energy and Sensors etc. Both I and II PG students enthusiastically participated in this event. More than 400 participants visited the exhibition and enriched their knowledge. Participation certificates were given to all the PG students for their active participation and prizes were announced for the best projects and posters.

Number of beneficiaries: 400

INNOVATION INSIDE
Creative Projects of Auxilium College Wilson

AUXILIUM COLLEGE
(AUTONOMOUS)
(Accredited by NAAC with A+ grade with a CGPA of 3.55 out of 4 in the 3rd circle)
Gandhinagar vellore-632006

PG DEPARTMENT OF PHYSICS
Cordially Invites you for the
Science Spectacle and Awareness Program
On
CONSERVATION OF ENERGY

Date: 10th December
Time: 10.00am to 05.00pm

Venue: Science Block
(Physics Laboratory)

Principal
Dr.(Sr.) Jaya Santhi.R

Vice Principal
Dr.(Sr.) Jacintha

Head of the Department
Dr.Nisha shantha kumari.P

Co-Ordinator
Dr.Reena Devi.S



Vellore, Tamil Nadu, India
 4th East Cross Rd, Suthanthira Ponvizha Nagar, Gandhi Nagar, Vellore, Tamil Nadu 632006, India
 Lat 12.957487°
 Long 79.148174°
 10/12/21 10:36 AM



Vellore, Tamil Nadu, India
 4th East Cross Rd, Suthanthira Ponvizha Nagar, Gandhi Nagar, Vellore, Tamil Nadu 632006, India
 Lat 12.957546°
 Long 79.148193°
 10/12/21 09:56 AM

Sr. Vigneshwari
 PRINCIPAL
 AUXILIUM COLLEGE (Autonomous)
 Gandhi Nagar, Vellore - 632 006.
 Vellore District, Tamil Nadu.

Academic Year 2022-2023

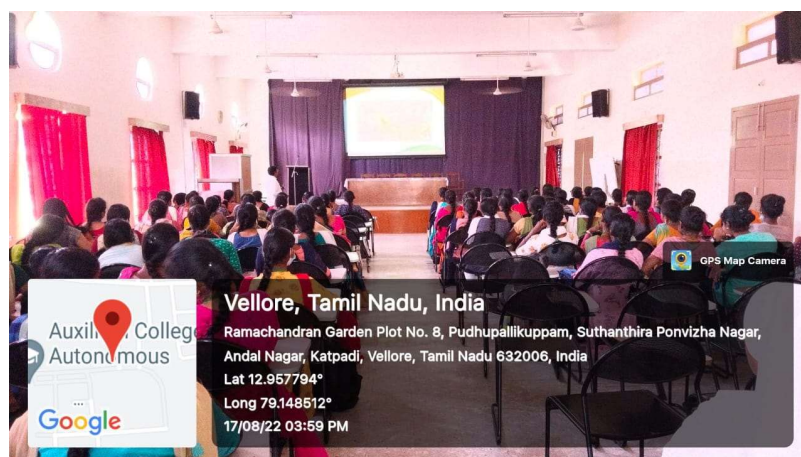
Activity I

A programme for welcoming the IPG Physics students was organized by PG Department of physics, Auxilium College, Vellore on August 1, 2022 at 10.00 am at PG Physics Laboratory.



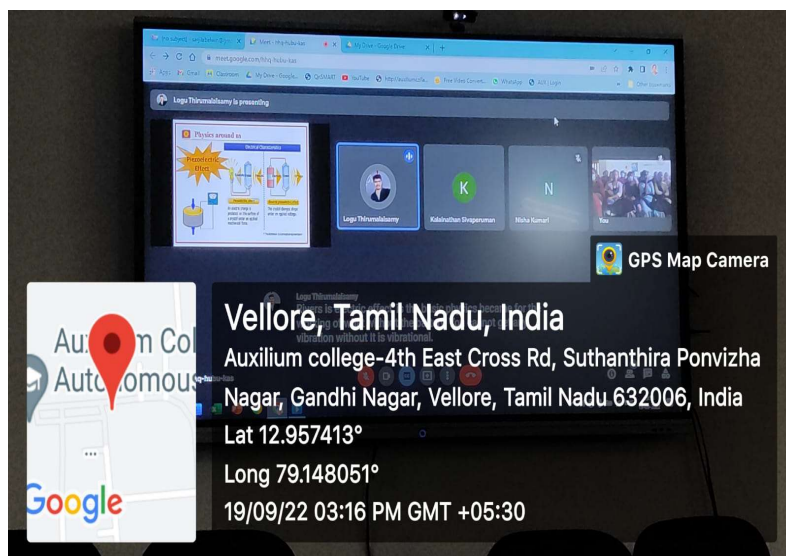
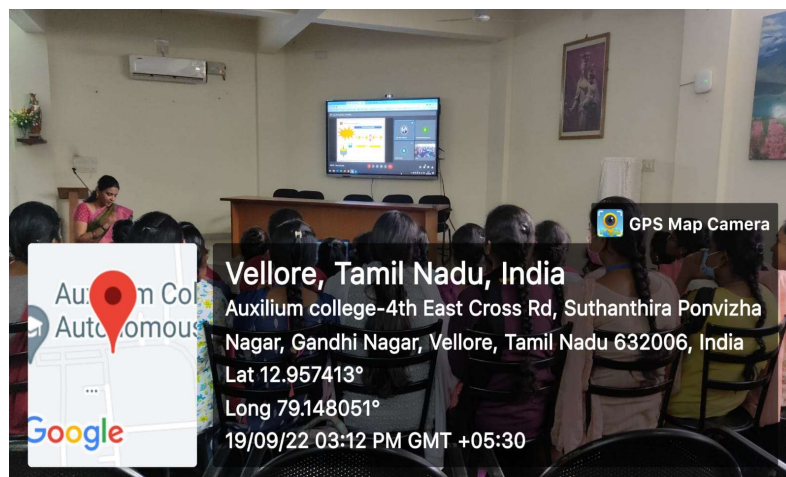
Activity -2

The Physics Association Inauguration for the academic year 2022-2023 was conducted on 17th August, 2022 at Computer Block seminar Hall. Rev. Dr. G, Theophil Anand, Assistant Professor, PG and Research Department of Physics, Sacred Heart College, Tirupattur was invited as chief guest. Rev. Dr. G, Theophil Anand delivered a talk on “75 years of India’s scientific development and future technologies”



Activity - 3

On 19th September, “International Video conference” was organized by PG Department of Physics Association in Admin block auditorium via Google meet. Dr. S. Kalainathan, Professor, Higher Academic Grade, Centre for Nanotechnology Research, VIT University, Vellore was invited as a chair person for the programme. Dr.LoguThirumalaisamy, Newton International Fellow, Swansea university, United kingdom delivered a lecture on “Higher Educational opportunities in India and Overseas”.



Activity – 4

Second National Conference on Advanced Materials and Applications (NCAMA) was organized by Department of Physics on 13-14th October 2022 in collaboration with Indian Spectrophysics Association (ISPA), Chennai. The conference proceeding was released by Prof. S. Gunasekaran and its first copy was received by Dr. Sr. Jaya Santhi, Principal, Auxilium College. The first technical session I was started at 11.15 a.m. by the chair person Dr. P. Janani, Instructional Designer Head (Academics), Ectian Contents Pvt. Ltd, Mumbai. She welcomed and introduced the resource person of that session Dr. M. Selvapandiyan, Associate Professor & Head, Department of Physics, Periyar University PG Extension Centre, Dharmapuri. He delivered a talk on **“Enhancement of Optical And Structural Properties Of Nonlinear Optical Materials For Frequency Doubling Applications”**. Dr. P. Janani enriched us with her unique presentation on **“Role Of Reflectance Spectroscopic Technique In Diagnosing The Thyroid Disorder And Efficacy Of An Ayurvedic Drug In The Treatment Of Thyroid”**. The first session of Second day Technical session III was started with a prayer song at 9.30 a.m. Dr. Jerome Das, Associate Professor & Head, Department of Physics, Loyola College, Chennai was invited as a resource person. Dr. Jerome Das presented a PowerPoint on **“Research On Materials”** and also he delivered about the recent advancement in modern materials. Dr. Albert Irudayaraj, Associate Professor & Head, Department of Physics, Sacred Heart College, Tirupattur, delivered a speech on **“Ni doped CeO₂ nanoparticles for Photocatalytic and Photoluminescence applications”**. Finally the valedictory session of this conference was started at 2.30 pm. This session was presided by Dr. S. Jerome das, Associate Professor & Head, Loyola College, Chennai.

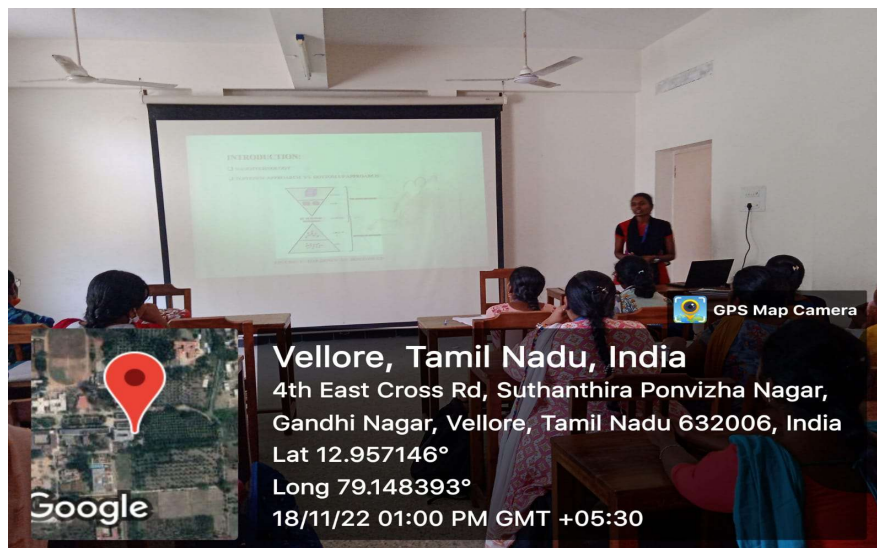
<p>About the College and the Department Auxilium College, founded in 1954, is the first women's college in the North Arcot district and now it is affiliated to the Thiruvalluvar University. Auxilium has been granted the status of autonomy by the UGC and the Thiruvalluvar University from the Academic year 2007-2008. It is a minority institution, established and administered by the daughters of Mary help of Christians commonly known as Salesian sisters of Don Bosco, belonging to the Catholic Church.</p> <p>About ISPA "Indian Spectro Physics Association (ISPA)" is a brain child of Veteran Professor and Scientist Dr. S. Gunasekaran. ISPA was started on April 23, 1998, it is a registered society under whose auspices, conferences, workshops and seminars are organized. ISPA is the peak of a strong belief that enlightening young minds and empowering them to pursue research through Spectroscopy. ISPA has an enviable record of having organized 12 International conferences and 17 National Conferences. ISPA also has organized 16 State Level Technical Seminars in Physical Sciences for PG and M.Phil. students, since 1999. ISPA finds its place in encouraging renowned and young scientists by honoring them with ISPA Awards in the recognition of the research findings of the scientists. 7 Veteran Scientist Awards, 35 Life Time Achievement Awards and 70 ISPA Dr. S. Gunasekaran Awards are given to researchers who have made excellent contributions in the field of Research, during Conferences/ Seminars organized by ISPA.</p> <p>About the Conference The conference will provide a viable forum between the scientists, faculty members, research scholars and students to interact, gain knowledge and to present original research contributions in this field. We hope that the knowledge shared will be immensely helpful for pro-active research and publication pursuits for aspiring scholars and scientists.</p> <p><i>We invite the faculty members, Research Scholars, PG Students and final year UG students of physics and chemistry departments to participate in the conference.</i></p>	<p>Topics to be Covered:</p> <ul style="list-style-type: none"> • Crystal growth • Nano materials • Thin films • Sensors • Polymers • Smart Materials • Energy materials • Advanced Techniques for Materials Characterisation <p>Resource Persons</p> <p>Dr. S. GUNASEKARAN Founder - President, ISPA Dean (R & D) St. Peter's Institute of Higher Education And Research, Avadi, Chennai.</p> <p>Dr. S. JEROME DAS Head, Associate Professor Department of Physics Loyola College, Chennai</p> <p>Dr. ALBERT IRUDAYARAJ Head, Department of Physics Sacred Heart College Tirupattur</p> <p>Dr. M. SELVAPANDIYAN Head, Associate Professor Department of Physics Periyar University Extension Centre Dharmapuri</p> <p>Dr. P. JANANI Instructional Designer Head (Academics) Ectian Contents Private Limited Mumbai</p>	<p style="text-align: center;">2nd NATIONAL CONFERENCE ON ADVANCED MATERIALS AND APPLICATIONS (NCAMA- 2022)</p> <p style="text-align: center;">13 - 14, October 2022</p> <p style="text-align: center;">REGISTRATION</p> <p style="text-align: center;">Online Registration https://forms.gle/z55iUp6iTrMK9WMS5</p> <p>Name:</p> <p>Category: (Tick) Faculty/Research Scholar PG/UG Student</p> <p>Educational Qualification.....</p> <p>Paper Presentations : Yes/No</p> <p>If Yes, Title</p> <p>Mobile no:</p> <p>Email ID:</p> <p>College Address:.....</p> <p>Registration fee Details :</p> <p>D.D No.</p> <p>Amount Rs. Date.....</p> <p>Name of the Bank.....</p> <p>Place:</p> <p>Place :</p> <p>Date:</p> <p style="text-align: right;">Signature of the Applicant</p>
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Activity - 5

PG Department of Physics organized a paper presentation session for the PG students on 18th November 2022 in Admin Block Room No. 1. II M.Sc Physics students presented their summer project work.



Activity - 6

On 21st January 2023, twenty three students of PG Physics along with two staff members, Dr. P. Nisha Santhakumari, Head & Associate Professor, Department physics and Dr. N . R. Devi, Assistant Professor, Department of Physics, Auxilium College have visited Visvesvaraya Industrial and Technical Museum, Bangalore.



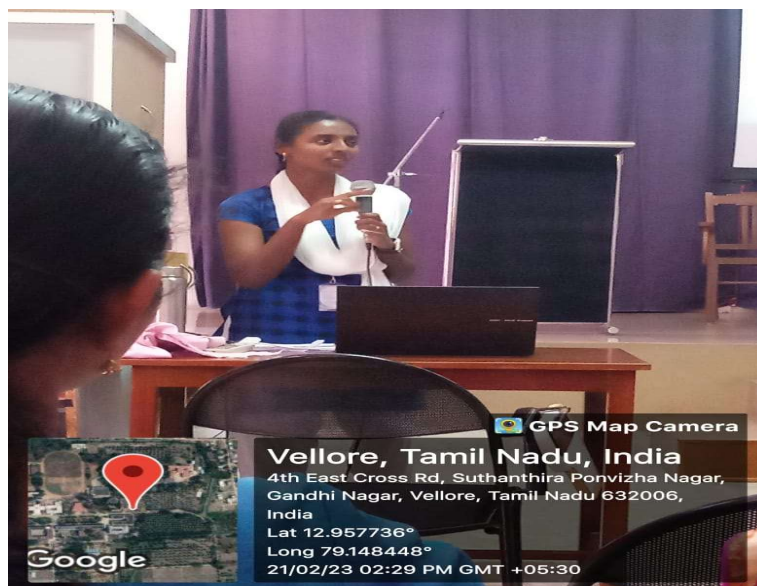
Activity - 7

As an extension activity, the staff and students of PG Department of Physics visited the nearby village “Thiruvalluvar Nagar” on 20th February. The students conducted games and Quiz for the students of Panchayat School at Thiruvalluvar Nagar and distributed prizes like note books, pens, color pencils and chocolates. Then we met the women who gathered near the church in the village. Dr.P.NishaSanthakumari gave an encouraging and motivational talk bringing forth the importance of their children’s studies. Ms.Charumathi, Ms.Ramya and Ms.Praveena of II M.Sc Physics enacted the concepts of educational quality, cleanliness, savings and unity through a small skit. Finally, the staff members and the students of Department of Physics distributed the rice, Dall, Groceries and other eatables to other village people.



Activity - 8

PG Department of Physics, Auxiliumcollege organized a “Motivational Talk” for Pg students on 21st February 2023 in computer block seminar hall. Ms. Praveena P. and Ms. Maria Vinita I, of II M.Sc Physics gave the motivational speech. Miss. Praveena P. explained about origin of neutrinos, Neutrino detector ‘Supercamiokande’ built in Japan, and explained about how we get an information about the whole universe from the detection of neutrinos. Ms. Maria Vinita I. talked on Astrophysics, especially about Black holes, Different types of telescope, Coronal mass ejection from the sun and Solar flare.



Activity - 9

As a part of association activity, Quiz competition was conducted for PG students at Admin Block, Room. No. 1 on 2nd March 2023. I and II PG students were participated in this event. Quiz was conducted in six different rounds the questions were asked from general physics, identify the name of the scientist and their discovery, fundamental laws, connecting game using physics terms, puzzles etc., The following are the prize winners,

Ist Prize

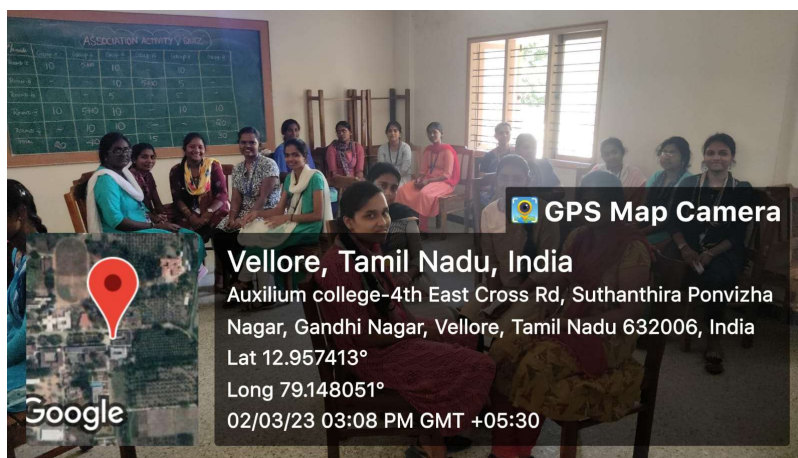
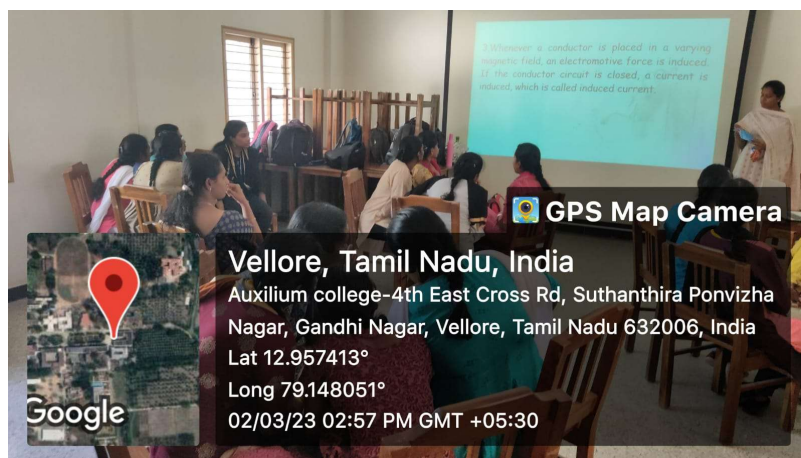
G.Kaviya, R.Ramya, J.Praveena, M.Charumathi

IIInd Prize

S. Jeffi Jas, P. Praveena, A. Josephine auxilia Mary, S. Bhuvaneswari

IIIrd Prize

Dhurga Shree K.C, Narmadha Devi R, Subhalakshmi R, Kesava |Priya A
Janani E.K, Poornima S, Soundarya S.S, Evangelin Lilly I



Activity - 10

As a part of Association activity, “Game challenge in Physics” competition was conducted for PG students at Allied Physics Laboratory on 18th April 2023. Twenty six PG Physics students participated in this event. They were divided into six groups. Competition was conducted in six different rounds. The prize winners are,

Ist Prize

A.Kesavapriya (I M.Sc), M.Charumathi (I M.Sc), A.JosephineAuxilia Mary (II M.Sc)

V.Supraja (II M.Sc)

IInd Prize

B.Prathiksha (II M.Sc), S.Jeffi Jas (I M.Sc), E.K.Janani (II M.Sc), P.Praveena (II M.Sc)

IIIrd Prize

R.Ramya (II M.Sc), S.S Soundarya (II M.Sc), E. Kaviya (II M.Sc), J. Evangelin Lilly (I M.Sc)

V. Abinaya. (II M.Sc)



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