# PROGRAMMES ORGANIZED BY DEPARTMENT OF PHYSICS (2024 - 2025)

# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR DEPARTMENT OF PHYSICS

# Report of the programme

Name of the programme

: Field visit

Place visited

: District Science Centre,

Tirunelveli

Date

: 24.08.2024

Brief objectives of the programme

• To induce scientific spirit among the students.

 To acquire experiential learning in the relevant field of physics through this field

visit.

No. of participants

: 24 (II B.Sc. Physics & II M.Sc. Physics)

Outcome of the programme

- The students watched and understood the physics concepts through live demonstrations with the working models exhibited in various galleries and in prehistoric park.
- They also understood the properties of liquid nitrogen through various demonstrations and its applications in various fields.
- A 3D show was also screened narrating the blood flow through various parts of human body and the role of white blood cells against disease causing bacteria.
- The students were also made aware of the opportunities available in the science centre to assist their innovative and creative ideas of scientific work.

R. Thilogonal

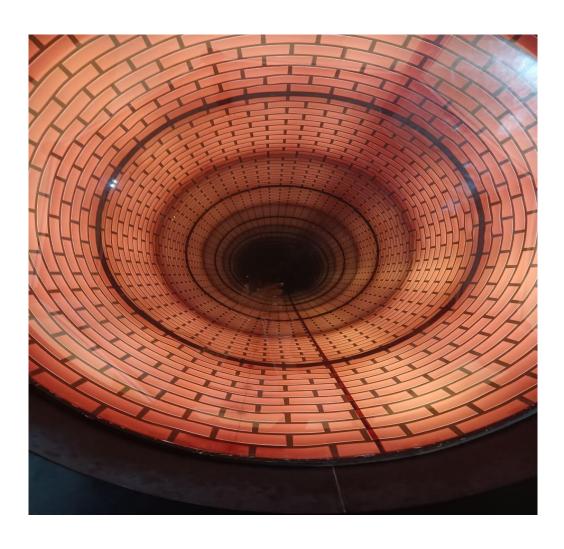
Staff in charge

T. Tacqueline Amelia 30/08/2024
Head of the department



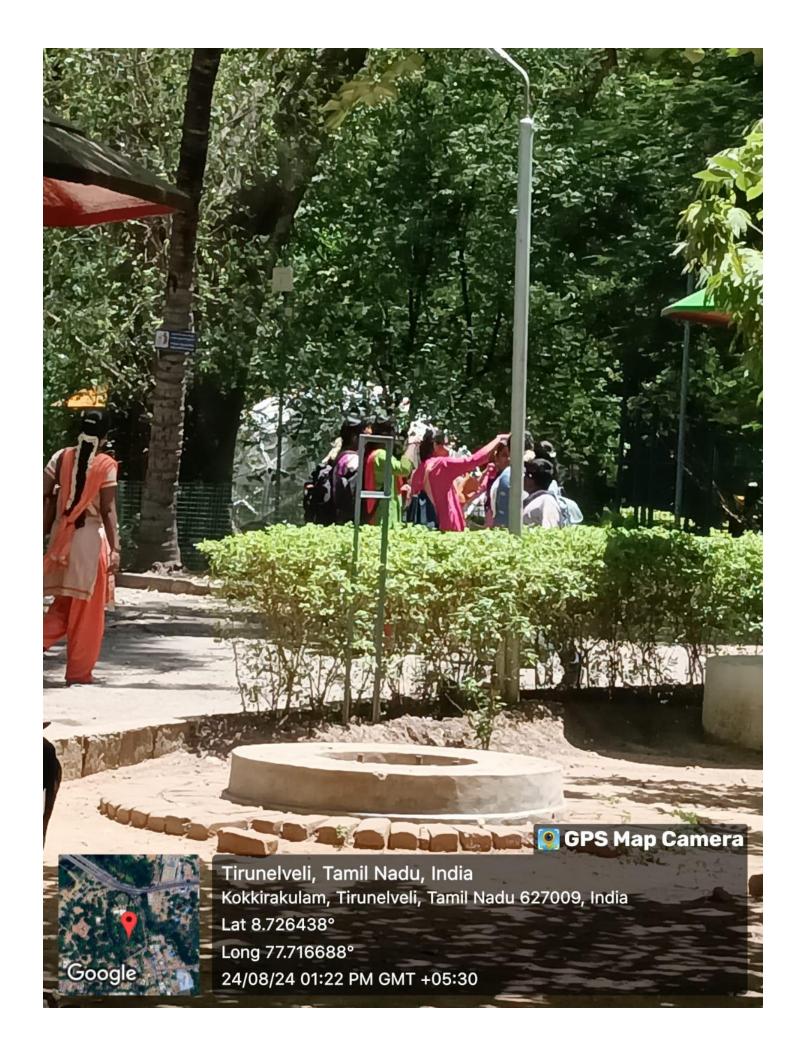


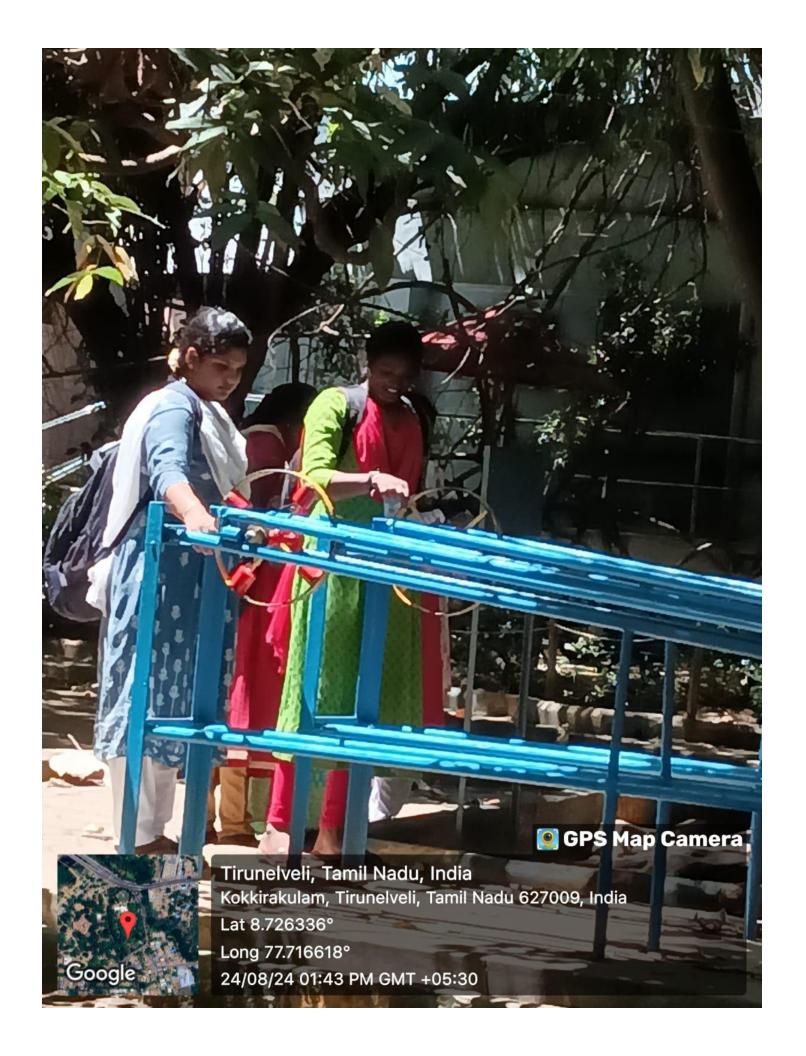














# **DEPARTMENT OF PHYSICS**

#### Report of the programme

Name of the programme

: Guest Lecture

Venue

: P.G. seminar hall

Date

: 02.09.2024

Brief objectives of the programme

 To acquire basic knowledge on the recent trends of innovative materials.

To motivate the research spirit among the

students.

Name of the chief guest with designation

: Dr. P. Selvarajan, M.Sc., M.Tech., Ph.D., PGDCA, Associate Professor and Head, Aditanar College of Arts and Science, Tiruchendur.

Topic of the lecture

: Importance of crystals and nanomaterials

No. of participants

: 72

Outcome of the programme

- The students learnt about various growth and analyzing techniques of crystals and nanomaterials.
  - They understood the applications of crystals in science and technology.
  - They were also made aware of the future scope for the research activity in the field of crystallography.

R. Ylilagarat

Staff in charge

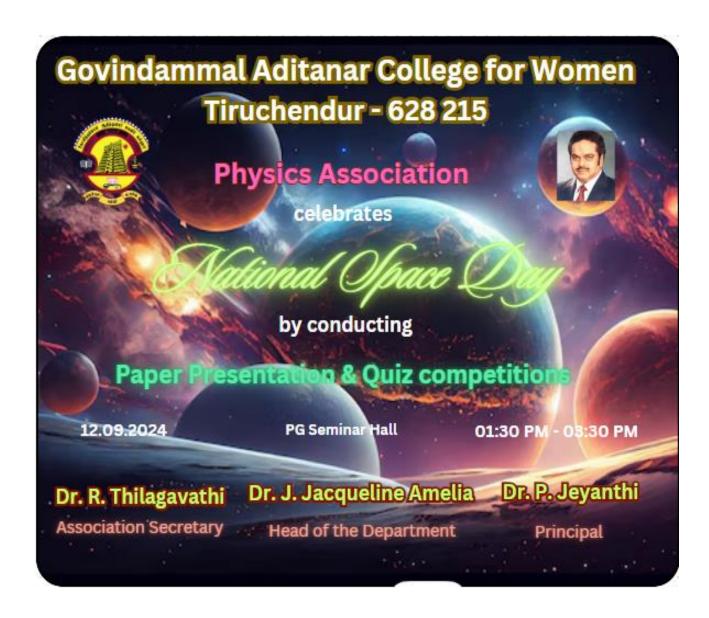
J. Jacqueline Ameli 06/09/2024

Head of the department









## **DEPARTMENT OF PHYSICS**

# Report of the programme

Name of the programme : National space day celebration

Venue : PG Physics lab

Date : 12.09.2024

Brief objective of the programme

 To commemorate the successful landing of Vikram lander of Chandrayan–3 mission in the south pole of moon.

 To create awareness about space science and astronauts among students by conducting competitions on space science related topics.

Topic of the event : Space missions in India

No. of participants : 75

Name of the judges : Dr. J. Jacqueline Amelia, M.Sc., B.Ed., PGDCA, M.Phil.,

Ph.D.

Head and Associate Professor of Physics, Govindammal Aditanar College for Women,

Tiruchendur – 628 215.

Dr. S. Muthulakshmi , M.Sc., B.Ed., M.Phil., Ph.D. Associate Professor of Physics, Govindammal Aditanar College for Women, Tiruchendur – 628 215.

# Details of the prize winner

# a. Paper presentation

I Prize: S. Karthika (II B.Sc. Physics)
II Prize: N. Nagalakshmi (II M.Sc. Physics)

# b. Quiz

I Prize : K. Kalaivani (III B.Sc. Physics)

M. Usha (II B.Sc. Physics)

II Prize: S. Swedha (III B.Sc. Physics)

V. Priyadharshini (II B.Sc. Physics)

# Outcome of the programme

- The students enthusiastically participated in the paper presentation and quiz competitions.
  - This programme enhanced their knowledge in space science and developed their curiosity in astrophysics.

R. Thilagana N.

Staff in-charge

Head of the department 7 09 ao



Paper presentation by S.Karthika of II B.Sc. Physics on the topic, 'Chandrayan mission'.



Paper presentation by P.Santhiya of I M.Sc. Physics on the topic, 'My favorite astronaut and his/her achievements'.





Six teams participating in the quiz competition.



S. Karthika (II B.Sc. Physics) receives the first prize in paper presentation competition.



K. Kalaivani (III B.Sc. Physics) and M.Usha (II B.Sc. Physics) receive the first prize in quiz competition.



S. Swedha (III B.Sc. Physics) and V. Priyadharshini (II B.Sc. Physics) receive the second prize in quiz competition.

# Govindammal Aditanar College for Women Tiruchendur=628215



**Physics Association** 

organizes



# PROJECT DISPLAY COMPETITION



01.10.2024





O UG Physics Lab 101:30 PM - 03:30 PM

Dr. R. Thilagavathi Dr. J. Jacqueline Amelia

Dr. P. Jeyanthi

Association Secretary

Head of the Department

Principal

#### **DEPARTMENT OF PHYSICS**

# Report of the programme

Name of the programme : Project display competition

Venue : UG Physics lab

Date : 01.10.2024

Brief objective of the

programme

• To spark curiosity and motivation for deeper

learning in areas beyond the syllabus.

To enhance the presentation skill and to build

confidence among the students.

No. of participants : 30

Details of the prize winner : I Prize : S. Karthika (II B.Sc. Physics)

N. k. Narmadha Devi (II B.Sc. Physics)

II Prize: R. Amirtha Siruthika (III B.Sc. Physics)

A. Udaya (III B.Sc. Physics)

III Prize: A. Jeba Gnancy (III B.Sc. Physics)

S. Jeya Virukshaya (III B.Sc. Physics)

Outcome of the programme

: • The students improved their ability to present

and explain complex concepts clearly.

 The competition helped the students to identify the individual talents and strengths, thereby

aiding them to explore new concepts in physics.

Staff in charge

R. Thilagavalli

Head of the Department 08 10 aoay











#### **DEPARTMENT OF PHYSICS**

#### Report of the programme

Name of the programme

: Practical enrichment programme

Venue

: PG seminar hall

Date

: 09.10.2024

Brief objective of the programme

 To have great exposure of +2 school students on experimental physics and create interest in the subject of Physics.

 To demonstrate the physics experiments under the syllabus of +2 Physics to the +2 school students through wide range of physical concepts and processes.

No. of participants

: 94

### Outcome of the programme

- About 62 students from Kayalpattinam -Arumuganeri Higher Secondary School, Peyanvilai were benefited by this programme.
- The +2 students gained more knowledge in effective practical physics and gained hands on experience of using the instruments.
- Through this Practical Enrichment Programme, the students understood how to do the experiments by applying the physical concepts.
- We received excellent response from the feedback of students.
- The programme also enhanced the teaching skill of our final year UG students while demonstrating the practicals to the school students.

A Julo 2024 Staff in charge

Head of the department

Principal 2024















# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR DEPARTMENT OF PHYSICS

Report of the programme

Name of the programme

: B.Sc. Project work at VSSC

Level

: National level

Name of the organizing institution

: Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala.

Date

: 01.01. 2025 to 15.02.2025

No. of participants from our college

Three students of III B.Sc. Physics

Objectives of the Programme

- Gaining hands-on experience in doing projects and practical exposure to space technology, satellite systems and research methodologies.
- Enhancing technical skills in areas like aerospace engineering, remote sensing and data analysis.

Name of the students participated

: A. Jeba Nancy

T. Kalaivani

S. Swetha

Outcome of the Programme

- The students gained practical experience in space technology, networking opportunities with industry experts and a certificate that enhances prospects in space research and technology
- Understood the advanced concepts in space science and communication systems beyond academics.
- The students were able to know the career opportunities for their discipline in Indian Space Research Organization (ISRO)

R. Abootvalcani 1912/25

Staff in-charge

Head of the Department





भारत सरकार अंतरिक्ष विभाग विक्रम साराभाई अंतरिक्ष केन्द्र तिरुवनंतपुरम-६९५०२२ केरला, भारत फोन: (+91-471) 2562144



Government of India Department of Space Vikram Sarabhai Space Centre Thiruvananthapuram-695 022 Kerala, INDIA

Telephone: (+91-471) 2562144 Email: ajay ap@vssc.gov.in

# अन्तरिक्ष भौतिकी प्रयोगशाला Space Physics Laboratory

श्री अजय अनिल पोतदार/ Mr. Ajay Anil Potdar वैज्ञानिक/इंजीनियर-एसडी/ Scientist/Engineer-SD

# Certificate

Certified that the Project work entitled "Inversion of Ionosonde Radio signals to compute ionospheric parameters: Principles and Methodology" submitted by Ms. Swedha S, Govindammal Aditinar College for Women, Tiruchendur, contains original results of the research work carried out at Space Physics laboratory, Vikram Sarabhai Space Centre, Thiruvananthapurum, under my supervision during the period 01 January, 2025 - 15 February, 2025.

February 14, 2025 तिरुवनंतपुरम/Thiruvananthapuram



(अजय अनिल पोतदार/Ajay Anil Potdar)



भारत सरकार अंतरिक्ष विभाग विक्रम साराभाई अंतरिक्ष केन्द्र तिरुवनंतपुरम-६९५०२२ केरला, भारत फोन: (+91-471) 2562144



Government of India Department of Space Vikram Sarabhai Space Centre Thiruvananthapuram-695 022 Kerala, INDIA

> Telephone: (+91-471) 2562144 Email: ajay\_ap@vssc.gov.in

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# Certificate

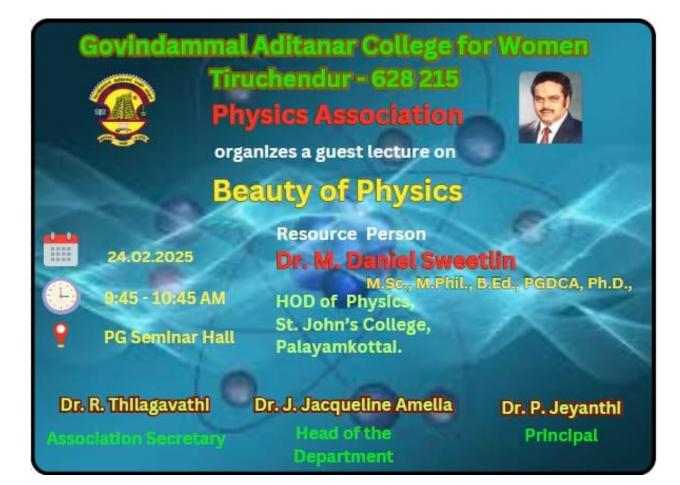
Certified that the Project work entitled "Inversion of Ionosonde Radio signals to compute ionospheric parameters: Principles and Methodology" submitted by Ms. Jeba Gnancy A, Govindammal Aditinar College for Women, Tiruchendur, contains original results of the research work carried out at Space Physics laboratory, Vikram Sarabhai Space Centre, Thiruvananthapurum, under my supervision during the period 01 January, 2025 - 15 February, 2025.

February 14, 2025 तिरुवनंतपुरम/Thiruvananthapuram

(अजय अनिल पोतदार/Ajay Anil Potdar)

भारतीय अंतरिक्ष अनुसंधान संगठन

Indian Space Research Organisation



# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR

# **DEPARTMENT OF PHYSICS**

# Report of the programme

Name of the programme

: Guest Lecture

Venue

: P.G. Seminar Hall

Date

: 24.02.2025

Brief objectives of the programme

• To acquire basic science knowledge in natural and artificial phenomena.

• To induce the science spirit among the

students.

Name of the chief guest with

designation

: Dr. M. Daniel Sweetlin,

M.Sc., M.Phil., B.Ed., Ph.D., PGDCA,

Head, Department of Physics,

St. John's College, Palayamkottai.

Topic of the lecture

: Beauty of Physics

No. of participants

: 72

Outcome of the programme

 The students learnt the physics behind phenomena like sonic boom, contrail, earth's magnetic field, auroras, etc.

• They were motivated to understand the science behind the every day-to-day activity.

Staff in-charge

P. Thilagara Ni

Head of the Departmen









# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN



**TIRUCHENDUR - 628215** 

Department of Physics Institution's Innovation Council (IIC)



jointly celebrate the



Guest Lecture on "Necessity of Nuclear Power Plants and its safety features"

Special Invitee:



Mr. A. V. Sathish B.Sc., M.B.A.,

Scientific Officer, Nuclear Power Corporation of India (Ltd.), Kudankulam



28.02.2025



10.00 A.M - 3.00 P.M



P.G SEMINAR HALL

Dr. P. JEYANTHI Principal

Dr. J. JACQUELINE AMELIA Head of Physics Department

Dr. T. RENUHA Head of BBADepartment & Vice-President-IIC

Dr. R. THILAGAVATHI Staff Advisor, Physics Association

Dr. R. DEIVAVEERALAKSHMI Convener - IIC

# PROGRAMME SCHEDULE

# Morning Session

Prayer song

RAMME

: Dr. J. Jacqueline Amelia, Welcome Address

Head of Physics Department

Presidential Address : Dr.P.Jeyanthi,

Principal

: Mr. A. V. Sathish B.Sc., M.B.A., Keynote Address

Scientific Officer

Presentation by Students: A. Jeba Gnancy

III B.Sc. Physics

V. Shree Jaganya

III B. Sc. Chemistry

Vote of Thanks : Dr. R. Thilagavathi,

Associate Professor of Physics

Poster Presentation Competition

Programme by Students

# **GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR**

# DEPARTMENT OF PHYSICS &

# INSTITUTION'S INNOVATION COUNCIL (IIC)

# Report of the programme

Name of the programme : National Science Day Celebration

Venue : P.G. Seminar Hall

**Date** : 28.02.2025

Brief objectives of the programme :

 To commemorate the discovery of the 'Raman Effect' by the eminent physicist Sir

C. V. Raman.

• To enhance the talents of the students

through organizing competitions.

Name of the chief guest with

designation

: Mr. A. V. Sathish B.Sc., M.B.A.,

Scientific Officer,

Nuclear Power Corporation of India,

Kudankulam.

**Topic of the lecture** : Necessity of Nuclear Power Plants and its safety

features

**No. of participants** : 200 (All Physics and Chemistry students)

Events organized : 1. Presentation of Project work

Ms. T. Kalaivani of III B.Sc. Physics and Ms. V. Shree Jeganya of III B.Sc. Chemistry presented their project works done at Vikram Sarabhai Space Centre,

Thiruvananthapuram, Kerala.

# **Events organized**

# 2. Poster Presentation Competition

**Topic:** Science for Sustainable

Development: Promoting Green

Technology

I Prize: S. Karthika (II B.Sc. Physics)

II Prize: S. Jeya Virukshaya

(III B.Sc. Physics)

# 3. Quiz Competition

I Prize: P. Santhiya (I M.Sc. Physics)

V. Brindha (I M.Sc. Physics)

II Prize: S. Swetha (III B.Sc. Physics)

S. Jeya Virukshaya

(III B.Sc. Physics)

# 4. Turncoat Competition

I Prize: S. Kavitha Devi (I M.Sc. Physics)
II Prize: A. Mercy (I M.Sc. Physics)

# 5. Drama

Participants: II M.Sc. Physics Students

- The students learnt the functioning of the Nuclear Power Plants at Kudankulam and its safety features.
- The Physics students enthusiastically participated in various events and showed their skills.

1. R. Thilagana (Physics)

Outcome of the programme

(IIC)

Staff in-charge

1. Oblo 3 Jacks (Physics)

1 1

(BBA)

**Head of the Department** 













# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR DEPARTMENT OF PHYSICS

# Report of the programme

Name of the programme

: Field visit

Place visited

: Sewage Treatment Plant,

Tiruchendur

Date

: 28.03.2025

Brief objectives of the

programme

To understand the working process of a Sewage

Treatment Plant.

To learn about wastewater management and its

environmental impact.

• To acquire experiential learning of water

purification and recycling techniques.

No. of participants

: 11 (II M.Sc. Physics)

Outcome of the programme

 The students learned about different stages of sewage treatment, including primary, secondary

and tertiary treatment methods.They observed the filtration, sedimentation

and aeration processes.

• The students understood the applications of

wastewater treatment in sustainable water

management.

Staff in charge 02 4

Head of the Department 02 04 2025



Field Visit to Sewage Treatment Plant (STP), Tiruchenchur



**Overall View of STP** 



**Aeration Tank** 



STP Staff explaining to students about Aeration Tank



**Secondary Clarifier** 



**Treated Water after Chlorine Disinfection** 



**Centrifuge House** 

# Govindammal Aditanar College for Women Tiruchendur - 628 215



Physics Association organizes

**Model Interview** 

for the UG & PG final year students



02.04.2025



9.45 - 11.40 am



**PG Physics Lab** 

Dr. R. Thilagavathi

Staff In-charge

Dr. J. Jacqueline Amelia

Head of the Department Dr. P. Jeyanthi

Principal

# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR DEPARTMENT OF PHYSICS

# Report of the programme

Name of the programme

: Model interview

Venue

: PG Physics laboratory

Date

: 02.04.2025

Brief objective of the programme

: • To evaluate the knowledge of students.

• To make the students to face the interview

boldly.

Name of the interviewers with designation

: Panel I:

 Dr. V. Vasantha Kumari, Associate Professor of Physics

2. Dr. M. Mariammal,
Assistant Professor of Commerce

Panel II:

1. Dr. T. Thangam,

Associate Professor of Mathematics

2. Dr. R. Gandhimathi,

Assistant Professor of Physics

Panel III:

1. Dr. R. Gomathi,

**Assistant Professor of Mathematics** 

2. Dr. A. Suganthi,

**Assistant Professor of Physics** 

No. of participants

: 27 (PG: 10 & UG: 17)

Outcome of the programme

• The students were able to evaluate

themselves through the interview.

 The students came to know about their strength and weakness while facing the

interview.

Staff in charge

R. Thilagaran

Head of the Department







# INTERCOLLEGIATE LEVEL PARTICIPATIONS (2024 - 2025)

# INTERNATIONAL CONFERENCE ON INNOVATIONS IN MATERIALS

INNOVATIONS IN MATERIALS SCIENCE (ICIMS - 2024)

2<sup>nd</sup> August 2024

Organized by

Department of Physics Aditanar College of Arts and Science

Virapandianpatnam, Tiruchendur - 628 216.

Registration Form

- 1. Name:
- 2. Designation:
- 3. Institution / Organisation :
- 4. Address for communication:
- 5. Phone / Mobile:
- 6. E-mail:

Whether presenting a paper: Yes/No

**Payment Details:** 

Dr. P. Selvarajan, G-pay to: 8870428536

Place:

Date:

# Signature of the participant

(The signed copy of registration form with screen shot of payment details should be sent to aditanarphysics@gmail.com on or before 25.7.2024)

# Organizing Committee

## Dr. S. Jeyakumar M.Sc., M.Phil., Ph.D.,

Secretary,

Aditanar College of Arts and Science, Tiruchendur.

# Dr. D. S. Mahendran M.Sc., M.Phil., Ph.D.,

Principal,

Aditanar College of Arts and Science, Tiruchendur.

# Dr. P. Selvarajan M.Sc., M. Tech., Ph.D., PGDCA

Head and Associate Professor of Physics, Aditanar College of Arts and Science, Tiruchendur.

# (Convener)

# Dr. I. Sehar M.Sc., M.Phil., Ph.D., PGDCA

Associate Professor of Physics, Aditanar College of Arts and Science, Cell: 9486391546.

# **Organizing Secretary**

# Dr. G. Vasuki M.Sc., M.Phil., Ph.D., PGDCA

Assistant Professor of Physics, Aditanar College of Arts and Science, Cell: 6379684325.

### Members

### Dr. R. Sree Devi M.Sc., M.Phil., B.Ed., Ph.D.

Associate Professor of Physics,

## Ms. C. Lingeswari M.Sc., M.Phil.,

Assistant Professor of Physics, Aditanar College of Arts and Science, Tiruchendur.

# INTERNATIONAL CONFERENCE ON

INNOVATIONS IN MATERIALS SCIENCE (ICIMS - 2024)

# 2nd August 2024

Organized by

# Department of Physics Aditanar College of Arts and Science

(Re-accredited in the Third Cycle with 'A' grade by NAAC)
Virapandianpatnam, Tiruchendur - 628 216.
Website: www.aditanarcollege.in



In association with Indian Association for Crystal Growth(IACG), Chennai and Raman Research Foundation(RRF), Tiruchirappalli





#### The Institution and the Department

Aditanar College of Arts and Science was established in the year 1965, by Thiru. Si. Pa. Aditanar and Padmashree Dr.B. Sivanthi Adityan was the President of the College Committee from its inception to April 2013. Thiru S.Balasubramanian Adityan is the president of our College from 2013 onwards. The college is located in Virapandianpatnam near Tiruchendur, Tamilnadu. It is affiliated to Manonmaniam Sundaranar University, Tirunelveli and is reaccredited by NAAC with A Grade in the third cycle.

The College has 12 U.G. programmes including Physics, Mathematics, Computer Science and P.G & M.Phil. programmes in Mathematics, Chemistry, Zoology, English, Economics and also offer Ph.D. programmes. UGC-sponsored add-on courses are offered in Soil Science, Medicinal Botany and Sericulture. The college maintains high academic standards and provides quality education. It has taken up several UGC, DST and TNSCST sponsored research projects.

The Department of Physics offers Physics main for the past 43 years. The faculty is well experienced, research oriented and has taken up many research projects. The department has successfully run a few science popularisation Schemes with aid from TNSCST. The department is also carrying out science popularisation activities sponsored by our college management.

Crystal Growth Centre was established in the Department of Physics of our College in 2003 to carry out research activities in the field of crystal growth and nanotechnology. Some of the instrumentational facilities available in the centre are constant temperature bath, microwave oven, temperature controlled furnace, two probe arrangement, pelletizer, centrifuge, LCR meter, electronic balance, pH meter, Abbe's refractometer, magnetic stirrer, melting point apparatus, internet facility etc. Faculty members and students of our and nearby colleges are using the facilities available in the centre to carry out their research works.

#### Objectives of the conference

The conference is focused at bringing together scientists, researchers, faculty and students interested in materials science. The objectives are

- (i). To discuss new development and analyze the materials science and technology.
- (ii). To create research awareness and to motivate the faculty and students to carry out research actively.
- (iii). To share and discuss the design of novel materials for technological applications to deliver to the society.
- (iv). To impart an insight and indepth knowledge on materials preparation, charaterization and technological advancements in device fabrication.

#### Resource Persons

#### Dr. K. Ravichandran.

Associate Professor and Head, PG & Research Department of Physics, A.V.V.M.Sri Pushpam College (Autonomous) Poondi - 613 503, Thanjavur, Tamilnadu, India. Email: kkravi1365@gmail.com

#### Dr. Vijayakumar Paranthaman,

Post - Doctoral Fellow, Institute of Sustainable Energy, Universiti Tenaga Nasional, Malaysia. Email: kumarphysics89@gmail.com.

#### Dr. Muthu Senthil Pandian,

Research Scientist, Senior Grade-III, SSN Research Centre, SSN Institutions Chennai, Tamil Nadu, India.

Email: senthilpandianm@ssn.edu.in

#### Important Dates

Submission of full paper / Extended abstract

: 20.07.2024

Acceptance of full paper : 22.07.2024

Last date for payment of registration fee

: 25.07.2024

#### Registration fee

Rs.300/- for Faculty members Rs.500/- for Research scholars Rs.250/- for Students

# CALL FOR PAPER PRESENTATION

Research papers on the relevant topics in Materials Science can be presented in the conference (Oral / Poster). Full Paper not exceeding 2 pages (Word file, font size 12, Times New Roman, Spacing 1.5) should be submitted to "aditanarphysics@gmail.com" The submitted papers will be published in the conference proceedings with ISBN number.



# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR

#### **DEPARTMENT OF PHYSICS**

## Report of the programme

Name of the programme

: International conference on "Innovations in

Material Science (ICIMS-2024)"

Level

: International

Name of the organizing institution

Department of Physics,

Aditanar College of Arts and Science,

Tiruchendur.

**Date** 

: 02.08.2024

No. of participants

: Four students of II M.Sc. Physics

Name of the students participated

1. K. Meena Pon Abirami

D. Santhiya
 S. Sneha
 S. Suba

Details of prize winners

: Poster presentation:

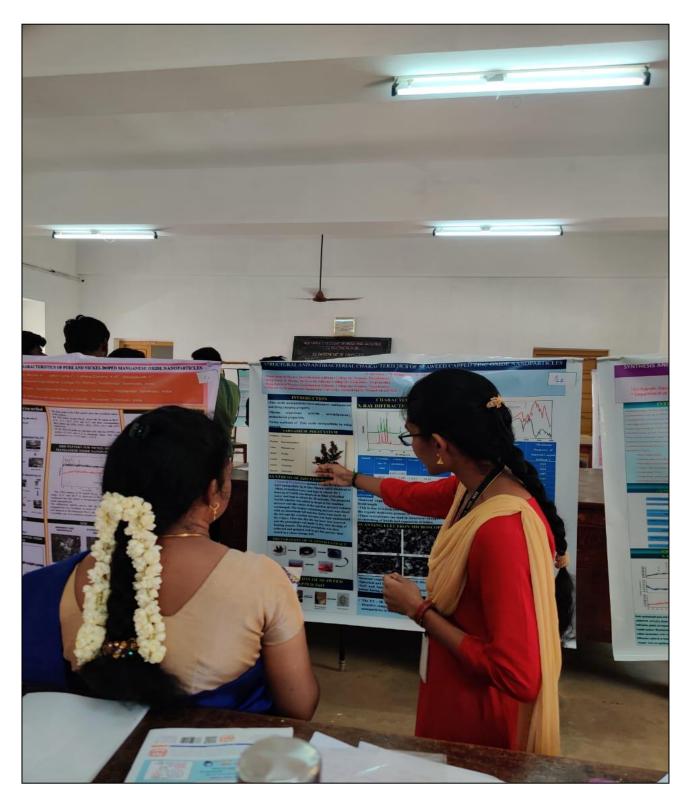
D. Santhiya of II M. Sc. Physics won the Best

**Poster Presentation Award** 

Staff in charge

R. Thilayanal.

Head of the Department



D. Santhiya of II M.Sc. Physics presents her poster on the topic, "Structural and antibacterial characteristics of Zinc Oxide Nanoparticles using SargassiumPolycystum Extract" in the International Conference.



K. MeenaPonAbiramiof II M.Sc. Physics presents her poster entitled,"Structural and Optical characteristics of Pure and Nickel doped ManganeseOxide Nanoparticles" inthe International Conference.



**D. Santhiya receives BestPoster Presentation** award in the International Conference.



Best Poster Presentation certificate received by D. Santhiya





# வ.உ. சிதம்பரம் கல்லூரி V.O.Chidambaram College

Reaccredited with A++ Grade by NAAC with CGPA 3.66 out of 4 in the 4<sup>th</sup> cycle.

Ranked 28<sup>th</sup> Position in NIRF 2024



## STATE LEVEL ONE DAY HANDS-ON TRAINING ON

# DFT MODELLING OF MOLECULES USING GAUSSIAN 16 SOFTWARE



#### **SPECIAL FEATURES OF HANDS-ON TRAINING**

**Calculations** 

It enables predictive studies of many properties including:

- Mechanical properties
- Chemical properties
- Dielectric properties
- Electric and thermal conductivity
- Magnetic properties

You can do the following things with Gaussian

- based on DFT

  UV-Vis absorbance, FTIR,
- Energy band Calculations

Theoretical

**NMR Spectra** 

- Thermodynamic properties such as entropy, enthalpy etc.,
- LUMO-HOMO analysis

#### SOFTWARE PACKAGES

- Gaussian 16
- Molecular Docking
- Thermo PL
- MolView

This workshop will make your research articles rich in theoretical analysis thereby increasing the possibilities of your research articles to get published in peer reviewed journals....

### CHIEF GUEST



Dr. L. ANTONY SELVAM
Assistant Professor,
Department of Physics,
St. Xavier's College (Autonomous),
Palayamkottai - 627002.

#### s College (Autonomous), amkottai - 627002.

### ORGANIZING TEAM





Thiru A.P.C.V. CHOCKALINGAM
Honourable Secretary

Dr. C. VEERABAHU
Principal

Dr. A. NELLAI MURUGAN Director (UA) Mrs.G.SELVA MANOHARI Head, PG Dept. Of Physics(UA)

Dr. R. NARESH MUTHU

Dr. M. MELVIN DAVID KUMAR Dr.S. JAYASANKARI

Organizing Secretaries

# Kindly bring your own Laptop.Software will be installed

POINTS TO PONDER

before 10th Sep 2024.

Registration Fee : Rs.150/-

• Faculty, Research Scholars and PG

Online registration is mandatory on or

- Working Lunch will be provided.
- Certificates will be provided.
- Course Materials (PPT) will be provided.



ORGANIZED BY
PG DEPARTMENT OF PHYSICS (UA)

CLICK HERE

For Online Registration:

Students of Science disciplines can attend.

https://forms.gle/y2d836okfU6vUCSc7



13 Sep 2024

9:30 am - 12:30 pm



Venue: Auditorium

Contact Details:



Dr. R. NARESH MUTHU, Assistant Professor, PG Dept. of Physics (UA) +91 77089 80409 & vocphypg@gmail.com

# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR DEPARTMENT OF PHYSICS

# Report of the programme

Name of the programme : State level one day hands-on training

on, "DFT modeling of molecules using

Gaussian 16 software"

Level : State level

Name of the organizing institution : PG department of Physics,

V.O. Chidambaram College,

Thoothukudi.

Date : 13.09.2024

No. of participants from our college : Three students of II M. Sc. Physics

Name of the students participated : N. Nagalakshmi

D. Santhiya

S. Suba

Staff in charge

Head of the Department









## ST. XAVIER'S COLLEGE (AUTONOMOUS)

(Recognized as "College with Potential for Excellence" by UGC)
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PALAYAMKOTTAI- 627 002

# **PHYSCOM 2024-25**

# **Greetings from The Department of Physics**

Dear Sir/Madam.

The Department of Physics is organizing PHYSCOM-2025, an Inter-collegiate one-day event, on 31st January 2025 (Friday) for UG and PG Physics students.

We kindly request you to send the young Physicists from your college to participate in this event.

# WE LOOK FORWARD TO HEARING FROM YOU.

# SHIFT - 1

Dr. B. HELINA Head of the Department

Dr. D. PREM ANAND Dr. V. SIVASHANKAR

Dr. G. DAVID RATHINAVELU

Dr. S. ANNA VENUS

Dr. S. G. REJITH

## SHIFT - 2

Dr. L. ARUN JOSE

Dr. R. MARY JENILA

Mr. R. CHRISTHU RAJA

Dr. D. E. JAIN RUTH

Dr. S. ARON RABI

Dr. L. ANTONY SELVAM

Dr. M. SHEELA UDHAYA ROSELIN

Ms. M. JOSEPHINE GLADIYA

INVITES THE BLOOMING BUDS TO THE WORLD OF CREATIVITY

sxcphyscom@gmail.com

9994025814

# PROGRAMME SCHEDULE

REGISTRATION :- 08:30 AM INAUGURATION :- 09:00 AM

Venue: Fr. Caussanel Hall

Events	Time	Venue	No. of Participants
Paper Presentation (PG)	09:30 AM	PG Physics Lab	1
Quiz (UG)	09:30 AM	UG Physics Lab	3
Paper Presentation (UG)	09:30 AM	M-23	1
Collage (UG)	10:30 AM	UG Physics Lab	3
Quiz Final (UG)	10:30 AM	Fr. Caussanel Hall	3

## LUNCH BREAK 12:30 PM - 01:30 PM

Venue: Physics Lab

Dumb Charade (UG)	01:30 PM	Fr. Caussanel Hall	3
Working Model (PG)	01:30 PM	UG Physics Lab	2

### **VALEDICTION 03:30 PM**

Venue: Fr. Caussanel Hall

Ensure your participants to register on or before 29/01/2025 (wednesday) prior 05:00 pm through the form attached with this invitation via Whatsapp or Email at the earliest.

Whatsapp - 99940 25814 (Dr.B.Helina)

Email: sxcphyscom@gmail.com

NOTE: Participants must bring their college Id cards

ENTHRALLING PRIZES AND OVERALL WINNER TROPHY WILL BE GIVEN

# GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR **DEPARTMENT OF PHYSICS**

## Report of the Programme

Name of the programme : "PHYSCOM 2024 -25" - Competitions

Level : Intercollegiate

Name of the organizing institution : Department of Physics, St. Xavier's College,

Palayamkottai.

Date : 31.01.2025

No. of participating colleges 9 No. of participants from our : 13

institution

Details of prize winners 1. Poster presentation (PG): I Place

K. Meena Pon Abirami (II M.Sc. Physics)

2. Model Making (PG): I Place

N. Nagalakshmi (II M.Sc. Physics)

S. Keerthana (II M.Sc. Physics)

3. Collage (UG): II Place

R. Amirtha Suruthika (III B.Sc. Physics)

M. Mohana Pradha (III B.Sc. Physics)

V. Shobiya (III B.Sc. Physics)

4. Dumb Charade (UG): I Place

S. Jeya Virukshaya (III B.Sc. Physics)

N. K. Narmadha Devi (II B.Sc. Physics)

B. Kiruthika (I B.Sc. Physics)

Highlights Our students won the Overall Championship

**Trophy** 

R. Thileyaval G. 2. 2025 Staff in charge

