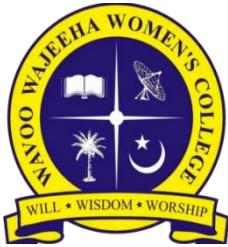


**WAVOO WAJEEHA WOMEN'S COLLEGE  
OF ARTS AND SCIENCE, KAYALPATNAM**  
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)  
Run by Wavoo SAR Educational Trust  
(Minority Institution)



# DEPARTMENT OF PHYSICS

## ASSOCIATION REPORT (2019-2020)



**WAVOO WAJEEHA WOMEN'S COLLEGE**  
**OF ARTS AND SCIENCE, KAYALPATNAM**  
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**(Minority Institution)**



**DEPARTMENT OF PHYSICS**

**Vision**

Enabling the students to ensure their full potential

**Mission**

- To inculcate problem solving skills for the application and empowering the students to become an independent thinker through innovative teaching.
- To impart quality education in acquiring conceptual understanding of Physics and enabling the power of Physics to the foremost scientific problems.
- To promote the public understanding of Physics by educating the next generation.
- To transform the young minds to competent professionals with good human values.

**Faculty Members**

1. **Mrs. S. Vasumathi** M.Sc., B.Ed., M.Phil.
2. **Mrs. R. Sujatha** M.Sc., B.Ed., M.Phil.,
3. **Mrs. S. V. Siva Abinaya** M.Sc., B.Ed., M.Phil.,
4. **Ms.A. Jai Nirmala** M.Sc., M.Phil., B.Ed., SET
5. **Miss. T. Kohila Jenifer** M.Sc., B.Ed.,



**WAVOO WAJEEHA WOMEN'S COLLEGE**  
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### **EINSTEIN ASSOCIATION INAUGURATION:**

The inauguration of Einstein Association was held on 25.07.2019 in our college premises by Dr.Rev.Sr.Mary Gilda.,M.Sc.MPhil.,PhD.,SLET., Principal Holycross Home Science College, Thoothukudi. Miss. T.Kohila Jenifer., M.Sc.,B.Ed., was selected as Staff Secretary and H.Ambiga Nigila of III B.Sc Physics and S.Harini of II B.Sc Physics were selected as Students Secretary and Assistant Secretary of the Association.

### **ASSOCIATION ACTIVITY**

The first meeting of Einstein Association was held on 16.08.2019 in our college premises. The Chief guest of this session was Dr. S. Jeyakumari M.Sc., M.Phil., M.Ed., PGDCA., Ph.D., PGDBA., Associate Professor, Department of Physics, Sri Kumaragurubarar College of Arts and Science, Srivaikundam and she delivered a lecture on the topic Imagination is a powerful creation.



**Figure 2** Special talk by Dr.S Jeya kumari, M.Sc., M.Phil., M.Ed, Ph.D.,

The second meeting of Einstein Association was held on 30.09.2019 in our college premises. The Chief guest of this session was Dr. P. Sumithraj Premkumar M.Sc., M.Phil., M.Ed., Ph.D., Assistant Professor of Physics, St. John's College, Palayamkottai, Tirunelveli. He delivered a lecture on the topic Chronological development of electrochemical cell and its advancement.



**Figure 3 Guest lecture by Dr. P. Sumithraj Premkumar M.Sc., M.Phil.,Ph.D.,**

## NATIONAL LEVEL SEMINAR ON LUMINESCENCE DATING TECHNIQUE AND NH<sub>3</sub> SENSOR:

The Department of Physics Organized a National Level Seminar on Luminescence Dating Technique and NH<sub>3</sub> Sensor on 18.12.2019. The Resource persons were Dr. P. Morthekai Scientist – C, Luminescence Dating Laboratory, Birbal Shani, Institute of Palaeosciences, Uttar Pradesh and Dr.J.Jebaraj Devadasan Head, Department of Physics, Pope's College, Sawyerpuram. The students from various colleges were participated actively in the seminar.



**Figure 4** National level Seminar on Luminescence Dating Technique and NH<sub>3</sub> sensor

**Figure 5**

Dr. J. Jebaraj Devadason delivering the lecture on NH<sub>3</sub> sensor

### **POSTER PRESENTATION COMPETITION**

Einstein Association conducted Poster presentation competition at Physics Laboratory on 20.01.2020. Judges for the competition were Mrs. J. Sharmine Mary Janaki M.C.A., M.Phil., Head, Department of Information Technology , Mrs. S.N. Sithi Shamila, Assistant Professor, Department of Computer Science., Mrs. A. Nesa Agnes Bellinta M.Sc., M.Phil, Head, Department of Computer Science. Students were actively participated in the competition and won the prizes.

Competition on Poster Presentation	
Class	Topic
I Physics	Advantages of Renewable energy over non-renewable Energy
II Physics	Technological Improvements in Magneto material Applications

The Following Students Won Prizes in the Event

Einstein Association Competition		
Prize Winners List – Paper Presentation		
S.No.	Name	Place
1	B.Kanagavalli	I Prize
2	Harini Authinathan	II Prize
3	M.A.Hameeda Sabreen	III Prize

**ANNEXURE-I**  
**CIRCULAR**

**CIRCULAR**  
**DEPARTMENT OF PHYSICS**

We are happy to inform you that the Physics Association Meeting will be held on 16.08.2019 at 11 am in Seminar Hall. All are cordially invited.

**Chief Guest:**

**Dr. S. Jeyakumari M.Sc., M.Phil., M.Ed.,PGDCA.,Ph.D.,**  
Associate Professor Department of Physics,  
Sri KGS Arts and Science College,  
Srivaikundam

**Topic:**Imagination is a powerful creation

*T. Kohila Jenify*  
Convenor

*R. C. Vanshi*  
Principal

CIRCULAR  
DEPARTMENT OF PHYSICS

We are glad to inform you that the Einstein Association Meeting will be held on 30.09.2019 at 10 am in Seminar Hall. All are cordially invited.

**Chief Guest:**

**Dr.P.Sumithraj Premkumar M.Sc., M.Phil., Ph.D.,**  
Assistant Professor of Physics,  
St. John's College,  
Palayamkottai  
Tirunelveli

**Topic: Chronological development of electro-chemical cell and its advancement**

*T. Kohila Jenifer.*  
Convenor

*R. C. Vasuki*  
Principal

**CIRCULAR**  
**DEPARTMENT OF PHYSICS**

We are glad to inform you that our department has organized one day "National Level Seminar On Luminescence Dating Technique & NH<sub>3</sub> Gas Sensor" at our college Seminar Hall on 18.12.2019. All are cordially invited.

**Resource Persons:**

1. Dr.P.Morthekai,  
Scientist – C,  
Luminescence Dating Laboratory,  
Birbal Sahni,  
Institute of Palaeosciences,  
53, University Road,  
Lucknow – 226007  
Uttar Pradesh, India

**Topic:** Luminescence Dating Technique

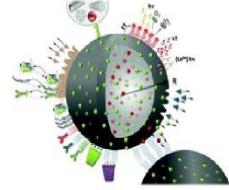
2. Dr.J.Jebaraj Devadason,  
Professor & Head,  
Department of Physics,  
Popes College,  
Sawyerpuram – 628251  
Tamilnadu, India.

**Topic:** NH<sub>3</sub> Gas Sensor (Thin Film)

J. Kohila Jenifer.  
Convenor

R. C. Vasuki  
Principal

## ANNEXURE-II INVITATION

<p><b>Registration Form</b></p> <p><b>LUMINESCENCE DATING TECHNIQUE</b> &amp; <b>NH<sub>3</sub> GAS SENSOR</b></p> <p>Name : _____</p> <p>Designation : _____</p> <p>Institution : _____</p> <p>Mobile No. : _____</p> <p>E-mail : _____</p> <p><b>Instructions :</b></p> <p>1. Registration Fee: Rs. 150/- for Student, Faculty and Research Scholar.  2. The participants (women only) shall be faculty members, graduate and post graduate students of Science (Physics, Chemistry, Mathematics, CS,IT).  3. A maximum of 7 participants from each institution are permitted accompanied by one faculty.  4. Lunch and Seminar Kit will be provided for all the registered participants.  5. Interested participants can contact the coordinators in the given contact numbers on or before 15/12/2019.</p> <p>Register through Email (<a href="mailto:physics@wavoowajeehacollege.in">physics@wavoowajeehacollege.in</a>)</p>	<p><b>Steering Committee</b></p> <p><b>Chief Patron</b> Alhaj.WAVOO S.SHEYED ABDUR RAHMAN</p> <p><b>Founder President</b></p> <p><b>Co-Patrons</b> Haji WAVOO M.M. MOHUTHAZEEM, B.A (CS) Secretary</p> <p>Haji Hafiz WAVOO S.A.R. AHMED ISHAQUE, Aalim</p> <p><b>Asst. Secretary</b></p> <p><b>Chair Persons</b> Dr. C. VASUKI, M.A., Ph.D., DGT. Principal</p> <p>Dr. MERCY HENRY, M.A., Ph.D. Director</p> <p><b>Convenor</b> Mrs. S. Vasumathi, M.Sc., M.Phil, PGDCA Head, Department of Physics</p> <p><b>Organizing Members</b></p> <p>Ms. T. Kokila Jenifer, M.Sc., B.Ed Mrs. R. Sujatha, M.Sc., M.Phil., B.Ed Mrs. S.V. Siva Abinaya, M.Sc., M.Phil., B.Ed Ms. A. Jai Nirmala, M.Sc., M.Phil., B.Ed, SET</p> <p><b>Contact Reference :</b> Ms. T. Kokila Jenifer – 9344684502</p>	 <p><b>WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE</b> Run by : Wavoo SAR Educationl Trust (Affiliated to Manonmaniam Sundaranar University) Tiruchendur Road, Kayalpatnam-628204 Thoothukudi District, Tamilnadu Tel : 04639-280900, Fax:04639-284499 Email : <a href="mailto:physics@wavoowajeehacollege.in">physics@wavoowajeehacollege.in</a> <a href="http://www.wavoowajeehacollege.in">www.wavoowajeehacollege.in</a></p> <p><b>National Level Seminar</b> On</p>  <p><b>LUMINESCENCE DATING TECHNIQUE &amp; NH<sub>3</sub> GAS SENSOR</b></p> <p><b>18<sup>th</sup> December 2019, Wednesday</b></p> <p><b>Organized by</b></p> <p><b>Department of Physics</b></p>
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### About the Institution

*"Education is the passport to the future, for tomorrow belongs to those who prepare for it today"*

**Wavoo Wajeeha Women's College** came into existence in the year **2006-07** with a mission of offering quality education to the cause of rural women. It had a modest beginning with nearly nine programs of study in under-graduation levels and three in post-graduation level. But, in due course of time this college has started showing its mark of excellence in various fields of academic and social activities, and thereby it has earned an enviable reputation. The college was started by a philanthropist **Alhaj. Wavoo. S. Seyed Abdur Rahman** who, through his tireless social services for the sake of community, have won the admiration and respect of all. The founder has a very rich and varied experience in the matters connected to various fields of administration, thanks to his dedicated services in different spheres of social life.

### About the Department

*"Science is beautiful when it makes simple explanations of phenomena or connections between different observations"*

The department of physics was established in the year **2016** with a view to provide outstanding and innovative educational

opportunities to many talented students. The department aims to create a world class teaching and learning facility in the area of fundamental and applied physics. The department offers UG programme to prepare the students to contribute new concepts and technologies, through innovative teaching methods that combine student-faculty interactions, computer-based education, and hands-on experience in well-equipped modern laboratories with an aim of providing the platform for the students to cope up with the global trends.

### About the Seminar

The department of Physics organizes a Seminar on **"Luminescence Dating Technique & NH3 Gas Sensor"**, to expose the Luminescence dating which provides more reliable age estimates of the important geo-archaeological events through proper sampling strategy. The Seminar would lead us to know how Physics processes. It would give a great insight into how it has tremendous application in Geology, Archaeology, Climate change studies. It would enable us to know how sensors are used for measuring ultra-low concentrations of ambient ammonia for environmental monitoring and in the manufacturing of fertilizers, cleaning fluids and pharmaceuticals. The Seminar would really will excite the students and faculties alike.

### Agenda

9.00 am	-	Registration
9.45 am	-	Inauguration
10.30 am	-	Introduction
11.00 am	-	Tea Break
11.15 am	-	Session I
1.00 pm	-	Lunch
1.45 pm	-	Session II
3.00 pm	-	Valedictory

### Subject Experts

#### Dr. P. Morthekai

Professor, Dept. of Physics,  
Birbal Sahni Institute of Palaeoscience  
Lucknow - 226007

#### Session 1:

##### Luminescence Dating Technique

#### Dr. Jebaraj

Professor & Head,  
Department of Physics  
Popes College, Sawyerupuram - 628251

#### Session 2 :

##### NH3 Gas Sensor

**ANNEXURE-III**  
**PROGRAM SCHEDULE**



**Wavoo Wajeeha Women's College of Arts and Science,**

**Kayalpatnam**

**DEPARTMENT OF PHYSICS**

**Date:** 16.08.2019

**Time:** 11.00 am

1. Quirath	:	Ms.A.Fathima Ristha, II B.Sc Physics
2. Tamilthai vazhthu	:	
3. Welcome Address	:	Ms.H. Ambiga Nigila, III B.Sc Physics
4. Introducing Chief Guest	:	Ms. T.Kohila Jenifer M.Sc., B.Ed., Association Staff Secretary, Department of Physics
5. Memento Presentation	:	Dr . R.C. Vasuki, M.A., Ph.D., DGT., Principal
6. Chief Guest Address	:	<b>Dr. S. Jeyakumari M.Sc., M.Phil., M.Ed., PGDCA.,Ph.D.,</b>  Associate Professor of Physics Sri Kumaragurubarar College of Arts and Science, Srivaikundam
7. Vote of thanks	:	Ms. Harini Authinathan, II B.Sc Physics
8. Duah	:	Ms. S. Fathima Barveen, I B.Sc Physics
9. National Anthem	:	

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**Wavoo Wajeeha Women's College of Arts and Science,**  
**Kayalpatnam**

**DEPARTMENT OF PHYSICS**

**Date:** 30.09.2019

**Time:** 10.00 am

1. Quirath : Ms. M. Hajji Saffrin, I B.Sc Physics
2. Tamilthai vazhthu :
3. Welcome Address : Ms.H. Ambiga Nigila, III B.Sc Physics
4. Introducing Chief Guest : Ms. T.Kohila Jenifer M.Sc., B.Ed.,  
Association Staff Secretary, Department of Physics
5. Memento Presentation : Dr . R.C. Vasuki, M.A., Ph.D., DGT.,  
Principal
6. Chief Guest Address : **Dr. P. Sumithraj Premkumar M.Sc., M.Phil., Ph.D.,**  
Assistant Professor of Physics  
St John's College, Palayamkottai, Tirunelveli.
7. Vote of thanks : Ms. Harini Authinathan, II B.Sc Physics
8. Duah : Ms. S. Safriya Barvin, II B.Sc Physics
9. National Anthem :

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**Wavoo Wajeeha Women's College of Arts and Science,  
Kayalpatnam**

**DEPARTMENT OF PHYSICS**

**NATIONAL LEVEL SEMINAR ON LUMINESCENCE DATING TECHNIQUE & NH<sub>3</sub> GAS SENSOR  
18<sup>th</sup> DECEMBER 2019**

**PROGRAM SCHEDULE**

**Date: 18.12.2019**

**Time: 9:30 A.M.**

**INAUGURAL SESSION**

1. Quirath	: <i>Ms.A.Afrin Humaira, I B.Sc Physics</i>
2. Tamilthai Vazhthu	: <i></i>
3. Presided over by	: <i>Alhaj Wavoo S.Seyed Abdur Rahman</i> <i>Founder-President</i>
4. In the Presence of	: <i>Wavoo M.M. Mohuthazeem B.A.,(CS)</i> <i>Secretary</i> <i>Haji Hafiz Wavoo S.A.R. Ahmed Ishaque Alim, M.A.,</i> <i>Azhari (Egypt)</i> <i>Assistant Secretary</i> <i>Dr .Mrs. R.C. Vasuki, M.A., Ph.D., DGT.</i> <i>Principal</i>
	<i>Dr.Mrs.Mercy Henry, M.A.,Ph.D.,</i> <i>Director</i>
5. Welcome Address	: <i>Mrs. S.Vasumathi, M.Sc.,M.Phil.,B.Ed.,P.G.D.C.A.</i> <i>Head, Department of Physics</i>
6. Inaugural Address	: <i>Dr .Mrs. R.C. Vasuki, M.A., Ph.D., DGT.</i> <i>Principal</i>
7. Chief Guest Introduction	: <i>Ms. T.Kohila Jenifer M.Sc.,B.Ed.,</i> <i>Association Staff Secretary, Department of Physics</i>
8. Presenting the Memento	: <i>Alhaj Wavoo S.Seyed Abdur Rahman</i> <i>Founder-President</i>
9. Presidential Address	: <i>Alhaj Wavoo S.Seyed Abdur Rahman</i> <i>Founder-President</i>
10. Vote of Thanks	: <i>Mrs.A.Subha,M.Sc.,M.Phil.,Asst Professor of Physics</i>

**Session I** : *Dr.P.Morthekai*

**Time : 11:00 A.M.**

*Scientist – C,  
Luminescence Dating Laboratory,  
Birbal Sahni.*

**Topic:** *Luminescence Dating Technique*

**Session II** : *Dr.J.Jebaraj Devadason*

**Time : 1:30 P.M.**

*Professor & Head,  
Department Of Physics  
Pope's College  
Sawyerpuram*

**Topic:** *NH<sub>3</sub> Gas Sensors*

### **VALEDICTORY SESSION**

**Time: 3:15 P.M.**

1. Welcome Address : *Mrs.S.V.Siva Abinaya M.Sc., M.Phil., B.Ed., PGDCA*

*Assistant Professor, Department Of Physics.*

2. Felicitation Address : *Dr. Mercy Henry, M.A., Ph.D.,*  
*Director*

3. Feedback by Participants :

4. Prize Distributions :

5. Vote of Thanks : *Mrs. R.Sujatha M.Sc., M.Phil., B.Ed.,*  
*Assistant Professor, Department of Physics.*

6. Duah : *Ms.M.Hajji Safrin, II B.Sc. Physics*

7. National Anthem