

**Sri GVG Visalakshi College for Women (Autonomous), Udumalpet.**

**Affiliated to Bharathiar University**

**Accredited at *A* Grade by NAAC (Fourth Cycle)**


**An ISO 9001:2015 Certified Institution**

**Udumalpet, Tamilnadu.**

**DEPARTMENT OF PHYSICS**

**Workshop Organized for Students during 2019-2020**

<b>S.No</b>	<b>Date</b>	<b>Resource person details</b>	<b>Title of the Programme</b>	<b>No. of Beneficiaries</b>
1.	19.02.2020	1. Dr. C.Vijayan, Professor of Physics IIT Madras, President, IAPT, RC-13, TN & PY Region  2. Dr. N. Harish Kumar, Professor of Physics, IIT Madras, Secretary, IAPT, RC-13, TN & PY Region	One day “Workshop on Learning Physics Concepts through Experiments”	158 students from B.Sc& M.Sc Physics, Sri GVG Visalakshi College

<p><b>Organizing Committee</b></p> <p><b>Chief Patron</b> : Mr.G.Raveendran Managing Trustee and Secretary</p> <p><b>Chairman</b> : Mrs. S.Kalaiselvi Principal I/c</p> <p><b>Co-ordinator</b> : Mrs. T.V.Banumathi, Controller of Examination, Head &amp; Associate Professor of Physics</p> <p><b>Convener</b> : Mrs. B.Nirmala Associate Professor of Physics</p> <p><b>Organizing committee</b></p> <p>Dr. S.Aram, Associate Professor Dr. B.Kavitha, Assistant Professor Dr. M.Nirmala, Assistant Professor Mrs. N.Jayalakshmi, Assistant Professor Ms. J.Sree Sudha, Assistant Professor Ms.V.S.Vanathi, Assistant Professor Mrs. S. Deepika, Assistant Professor Mrs.D.Radhamani, Assistant Professor</p>	 <p><b>Department of Physics</b></p> <p>Sri G.V.G Visalakshi College for Women (Autonomous) Affiliated to Bharathiar University Accredited at 'A' Grade by NAAC [Fourth Cycle] Udumalpet – 642 128</p> <p><i>in Association with</i></p> <p><b>Indian Association of Physics Teachers</b> Tamil Nadu – Pondicherry Regional Council (RC13) &amp; <b>Department of BioTechnology, New Delhi</b></p> <p>Organise</p> <p><b>A One Day Workshop</b> on <b>Learning Physics Concepts through Experiments</b></p> <p>19<sup>th</sup> February 2020</p>
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<p style="text-align: center;"><b>Programme Schedule</b></p> <p>Registration : 9.00 AM</p> <p>Prayer :</p> <p>Welcome Address : <b>Mrs. B. Nirmala</b> Associate Professor of Physics</p> <p style="text-align: center;">----- Session I -----</p> <p>Inauguration &amp; Invited talk I : 10 AM – 11.15 AM : <b>Dr. C.Vijayan,</b> Professor of Physics, IIT Madras, President, IAPT, RC-13, TN &amp; PY Region</p> <p style="text-align: center;">----- Session II -----</p> <p>Invited talk II Experimental Demonstrations : 11.30 AM – 1.00 PM for College Students : <b>Dr. N. Harish Kumar,</b> Professor of Physics, IIT Madras, Secretary, IAPT, RC-13, TN &amp; PY Region</p> <p style="text-align: center;">----- Session III -----</p> <p>Experimental Demonstrations : 2.00 PM – 3.30 PM for School Children : <b>Dr. C. Vijayan &amp; Dr.N. Harish Kumar</b> Professor(s) of Physics, IIT Madras, IAPT, RC-13, TN &amp; PY region</p> <p style="text-align: center;">----- Session IV -----</p> <p>Valedictory Session : 3.30 PM - 4.00 PM</p> <p>Prize distribution : Prelims Winners of NAEST 2019</p> <p>Vote of Thanks : <b>Dr. B.Kavitha,</b> Assistant Professor of Physics</p>	<p style="text-align: center;"><b>About the College</b></p> <p>Sri G.V.G. Visalakshi College for Women is a prestigious autonomous Institution founded in the year 1952 by the renowned Philanthropist Sri G.V.Govindasamy Naidu, an Industrialist from this part of the district. The Institution is certified with 'A' Grade by NAAC in the 4<sup>th</sup> cycle and is an ISO 9001:2015 Certified Institution. As one of the Women's College affiliated to Bharathiar University with 67 years of Academic Excellence in the Empowerment of Women, the college is funded by the Department of Science and Technology under the DST-FIST (level-0) funding and has also been identified to participate in DBT-Star College scheme for enhancing the activities of the Science Departments. The college is continuously striving to establish the Quality Policy, to "Educate, Empower and Elevate" by implementing the concept of Outcome Based Education (OBE) from the academic year 2017-18 onwards.</p> <p style="text-align: center;"><b>About the Department</b></p> <p>The Department of Physics was established as a Major Department in the year 1986 at the B.Sc Degree level and the Department has been upgraded as a PG department from the academic year 2013 -2014. Every year the department conducts National Graduate Physics Examination (NGPE) and National Anveshika Experimental Skill Test (NAEST) for School and College students at the All-India level by the Indian Association of Physics Teachers (IAPT). The Department organizes Seminars, Workshops, Conferences and Intercollegiate competitions to motivate the students to update the subject knowledge and take up the research activities in the recent areas. Students also attend summer courses in the Experimental Physics hosted by Institutions such as Indian Academy of Sciences, Bangalore, Homi Bhabha Centre for Science Education and Research, Mumbai etc. Post graduate students undergo Summer Internship program at the Centre of Nanoscience and Nanotechnology, Bharathiar University, Coimbatore, IGCAR-Kalpakkam, ARCI-Chennai, Tamilnadu Academy of Sciences, Gandhigram Rural Institute etc.</p>
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19.02.2020

## One Day Workshop on 'Learning physics Concepts through Experiments on 19.02.2020.

The process of teaching and learning of physics doesn't fascinate the students and to make physics understandable, perceivable and enjoyable, we are trying to motivate the students by conducting this workshop through demonstration of experiments.

Department of Physics, Sri GVB Visalakshi College for Women, Udumalpet and Indian Association of Physics Teachers (IAPT) jointly organized a One day workshop on Learning physics Concepts through Experiments on 19.02.2020. The workshop was inaugurated in the morning at 10.00 am in the conference hall.

Mrs. B. Nirmala, Convener of the workshop welcomed the participants and the guests and explained the purpose and the background of the workshop. Dr. C. Vijayan Professor of Physics, IIT, Madras & President of the Tamilnadu-Pondicherry Regional Council of Indian Association of Physics Teachers and Dr. N. Harish Kumar Professor of Physics, IIT, Madras and Secretary Tamilnadu and Pondicherry Regional Council of the Indian Association of Physics Teachers (IAPT) were the resource persons of this workshop.

Dr. C. Vijayan inaugurated the workshop and delivered special address to B.Sc & M.Sc Physics students about fun with physics, the way of thinking physics, famous physics books, interesting physics concepts and how to relate physics concepts with nature. He also interacted with students and clarified their doubts.

Dr. N. Harish Kumar demonstrated experiments related to Centre of gravity, Pressure, Fluid Mechanics interesting experiments using liquid nitrogen, Electrostatic charge, Electromagnetic Induction, Faraday's Law



- Doppler effect and relate the physics concepts behind the showed experiments

150 Students from Sri GVG Visalakshi College for Women and 85 Students from Government Arts College, Udumalpet, Arulmigu Palaniandavar college, Palani PSGR Krishnammal College for Women, Coimbatore, Kamalam College, Udumalpet, STC, Pollachi and Nirmala College, Coimbatore were participated in this workshop.

In the afternoon session there are 116 Students from various schools in and around Udumalpet (Shaanti International School, Sainirasa Public School, RGM School, RKR Gwicks School, SKP School, SVA School) were actively participated in the workshop. Dr. C. Vijayan discussed about simple physics concepts, interesting physics books and showed experimental videos to the school students. Following him Dr. N. Harish Kumar demonstrated experiments in the topics of Mechanics, Pressure, Surface tension, Viscosity, Electromagnetic Induction, Faraday's Law, Doppler effect, Tindal effect, Laser, Dry ice and Fun experiments using liquid Nitrogen. The session was interactive and all aspects of interpretation and the physics to be learnt were freely discussed. After the demo session participants performed the experiments themselves under guidance of the resource persons.

Through this workshop students from various college and school get motivated & the workshop will train students in developing a sound understanding of the concepts of physics and in the application of these concepts in day today life. They will also learn to critically examine new ideas through questioning and to work as a team to arrive at answers. We believe that students must have a sound understanding of the fundamental concepts of physics through simple experiments.

Thus the workshop helped the students in understanding the concepts of physics, applications of these concepts in day today life. Finally Dr. B. Kavitha Assistant Professor of Physics proposed the vote of thanks to the gathering. Students gave their feedback about the workshop and participation certificates were distributed to mark the closing of the workshop.

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27/2/2020

Department Coordinator.



## SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)

Accredited at 'A' Grade by NAAC (Fourth Cycle), An ISO 9001:2015 Certified Institution, Udumalpet.



DEPARTMENT OF BIOTECHNOLOGY  
Ministry of Science & Technology  
Government of India



Department of Physics in Association with Indian Association of Physics Teachers  
Tamil Nadu – Pondicherry Regional Council (RC13)  
& Department of BioTechnology, New Delhi



A One Day Workshop on "Learning Physics Concepts through Experiments"

# Certificate

This is to certify that Mr. /Ms. M. RAMYANADHARAGAYI  
of ..... Physics of GOVE. ARTS COLLEGE, PALANI  
participated in the One day Workshop on "Learning Physics Concepts through Experiments"  
on 19.02.2020 at Sri G.V.G Visalakshi College for Women, Udumalpet.

*B. N. S.*  
Convener

*S.V.T.*  
Coordinator



*S. Kalavathi*  
Principal i/c

*(Not for Self : But for All)*



19-02-2020

Dr. C. Vijayan  
Professor of Physics  
IIT Madras  
President, IAPT, RC-13  
TN & PY Region

It is very good that the college is organizing such a program for the benefit of school and college students of the neighbourhood of Udumalpet. The idea of inviting us from IIT to conduct this program is very good. This is very much in line with the policy of IAPT, of spreading physics into areas far away from major cities

Cvij  
(C. VIJAYAN)

19.02.2020

Dr. N. Harish Kumar  
Professor of Physics  
IIT Madras  
Secretary, IAPT, RC-13  
TN & PY Region

The program on "Learning physics concepts through experiments" was well organised and well attended. The student volunteers from the college were efficient in quickly arranging the experimental demonstrations. ~~The~~ The participants were attentive. Overall I enjoyed the interacting with the student participants in the workshop.

N. H. K





**Department of Physics**  
Sri G.V.G Visalakshi College for Women, Udumalpet  
&  
**IAPT, DBT**

A One Day Workshop on

Learning Physics Concepts through Experiments  
19<sup>th</sup> February 2020

**Feedback Questionnaire**

**Name of the Student** : K. SRIDEVI  
**Year/Class** : I - M.Sc physics  
**Name of the College/ School** : APA college of Arts and culture,  
Palani.

1. Is the workshop stimulated you to think critically at the subject?

NO, physics is very interesting

2. What aspects of the workshop were the most valuable for you? And why?

Experiments give more idea and innovative  
for us.

3. Did activities were useful learning experiences in Physics Concepts?

Faraday's experiment, yes

4. Which experiment did you like the most?

Faraday's experiment, Bernoulli's Principle, Gyroscopic effect

5. Does the workshop help you to concentrate your efforts in future?

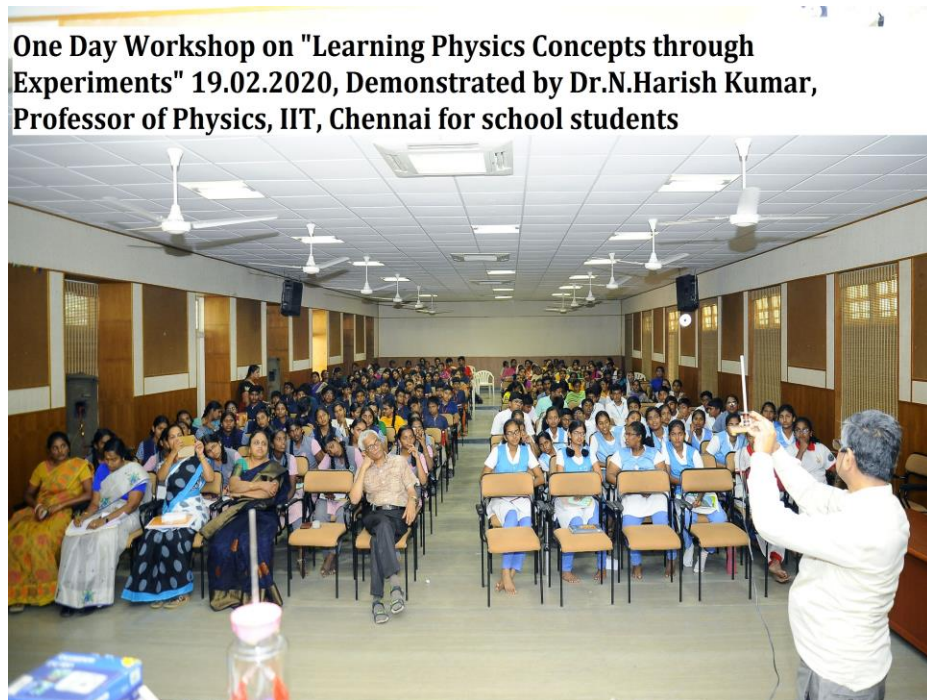
yes

6. Are there any other comments, ideas or suggestions you would like to share with us?

It is very helpful for us. Visualizing  
the experiment gives more idea for us.



**One Day Workshop on "Learning Physics Concepts through Experiments" 19.02.2020,  
Resource Persons: Dr.C.Vijayan & Dr.N.Harish Kumar, Professor(s) of Physics, IIT, Chennai**



**One Day Workshop on "Learning Physics Concepts through  
Experiments" 19.02.2020, Demonstrated by Dr.N.Harish Kumar,  
Professor of Physics, IIT, Chennai for school students**