

**SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE,  
AUTONOMOUS, Sion w.**

**Workshop Report**

**08.03.2022**

**Title:** One day Pratibha P. Pai National Webinar on The Frontiers of Physics was conducted by C.P.N. MENON Department of Physics on 17<sup>th</sup> July-2021

**Background:**

During the course curriculum students have limited approach towards the scientific learning and research. This webinar provided a platform to the students to interact with the researchers from various scientific backgrounds and to motivated them towards scientific learning.

Late Pratibha P. Pai joined in physics department of SIES in 1981 and retired as Head of the Department. She was a guiding force for many teachers and students not only in SIES but also students and teachers of other colleges in the city. She is known to simplify complex concepts and make interesting and accessible to the students. Her love for teaching and learning is unparalleled. Therefore, this webinar series is dedicated for this great teacher.

**Aims/ Objectives of the program:**

- to provide information in order to understand the recent advances in these rapidly growing fields.
- To develop the ideas to design new experiments.

This webinar series is a part of diamond Jubilee celebration of SIES ASCS.

The webinar “**PPP Webinar on the Frontiers of Physics**” was aimed at

- i) Covering the basic mechanism underlying superconductivity.
- ii) Cover various aspects of low temperature physics
- iii) Discussion on the current topic of sustainable modes of energy production.
- iv) Showcase the achievements in the field of Scanning Tunneling Microscopy.

**Location:** Online Lectures on MS Teams Platform

**Participation:**

UG and PG Students of Science stream from various universities of India.

Around 200 have participated through online MS Stream and streaming in You tube.

**Details of Session:**

Students from various science stream attended the workshop.

The program was conducted using online platform MS Teams, through power point presentations and video lecture. Study material was uploaded in the MS teams.

It was followed by question- answers session between the resource person and participants. There were around 200 participants from Maharashtra, Odissa, Uttat-radesh., Andhra, Karnataka West Bengal, Kerela.

DAY & DATE	
SATURDAY 17 <sup>TH</sup> JULY 2021	
Time	Topic
9.00 am-9.30 am (Morning session)	Inaugural Proceedings
9.30 am-11.00 am	Scanning Tunneling Microscopy by Dr. Sujit Manna (Assistant Professor, IIT Delhi), Department of Physics
11:00 am-12.30 pm	Low Temperature Physics by Dr. Pratap Roy Chaudhuri (Associate Professor(G), TIFR and Shanti Swarup Bhatnagar Awardee)
1 :15 pm-2:45 pm	Perspectives on Superconductors by Dr. Tanmoy Das (Assistant Professor, IISc Bangalore), Department of Physics
3.00 pm-4.30 pm	Sustainable Energy Harvesting by Dr. Anuja Datta (Assistant Professor (DST Ramanujan fellow), IACS Kolkata) School of Interdisciplinary Sciences
4.30 pm-5.00 pm	Valedictory function

**Outcome:**

Above 200 participants from various colleges and universities across India got exposure to the research work done by leading faculties from TIFR Mumbai, IISc Bangalore, IIT Delhi and IACS Kolkata.

UG and PG students and research scholars from all over India got an opportunity to interact with research scholars and researchers working in their respective field. Several questions were asked by the students and their feedback was collected which was well received and appreciated.

  
Convener