

**Sophia College for Women, Mumbai**  
**Departmental Report of Physics (2018 – 2019)**

Industrial Visit:

1. The Department of Physics in collaboration with the Zoology Department visited 'Nehru Science Centre' on 25<sup>th</sup> August, 2018.

34 students from the department went for an excursion where they were able to perceive the concepts of basic sciences through small experiments, short scientific movies etc.

2. The Department of Physics in collaboration with the Chemistry Department visited 'Bhabha Atomic Research Centre, Mumbai' on 1<sup>st</sup> March 2019.

08 students and one staff member visited the center and were able to explore the nuclear reactor, exhibition on robots, poster presentation on – going projects etc.

Exhibition:

The Department of Physics celebrates a science day by exhibiting working model on 28<sup>th</sup> February, 2019 in the canteen extension. Around 33 students presented a model in group, few of them are-

1. Heater & Lemon Generator
2. Hydraulic Controlled Robot
3. Amorphous Structure
4. Projector etc

Guest Faculty:

Department organized a Nobel Talk by Prof G. Ravindra Kumar on 'Extreme Optics' on 2<sup>nd</sup> March, 2019. The speaker started with the introduction of the Nobel Prize winner in Physics, 2018 and explained in brief about Laser beam and its applications.

## New Experiments:

Conducted new practicals in regular practical timing and involved all students to perform these practicals.

1. NAND as EX – OR Gate
2. NOR as EX – OR Gate
3. EX – OR gate as I's complement.
4. Characteristic of transistor etc





## SOPHIA - NOBEL ORATION in PHYSICS

Supported by DBT Star College Scheme  
On Saturday, 2<sup>nd</sup> March, 2019, 2:00 pm

The Nobel Prize in Physics 2018  
awarded to Arthur Ashkin &  
jointly to Gérard Mourou and  
Donna Strickland  
*"for groundbreaking inventions  
in the field of laser physics"*



Arthur Ashkin Gérard Mourou Donna Strickland

### Extreme Optics!

A talk by Prof. G. Ravindra Kumar, TIFR Mumbai



Date: 2<sup>nd</sup> March, 2019

Time: 2 pm

Venue: A.V. Hall, 2<sup>nd</sup> floor, Sophia Andersson Annexe,  
Sophia College, Mumbai-400 026

