

2017-2018

Name of the Department/Society: Department of Physics and Electronics/Lumen

Name of the Event 1: Inaugural Ceremony

Date of the Event: 26th September 2017

The Department of Physics and Electronics organized its annual Inaugural Ceremony on 26th September, 2017. The event started with the lamp lighting ceremony followed by the lecture on ‘Dark Matter’, its origin, detection, and experimental confirmation by Professor Amitabh Mukherjee from Department of Physics and Astrophysics. The students were elated to hear Prof. Mukherjee speak. His lecture was followed by another lecture on ‘CMOS and VLSI Technology’ by Dr. Harsupreet Kaur from the Department of Electronic Science, Delhi University. He imparted his immense knowledge on Semiconductor Chips to the students. She spoke at length on the various new technologies being developed by companies to make faster processors, fitting more transistors in the same area and the challenges associated with it.



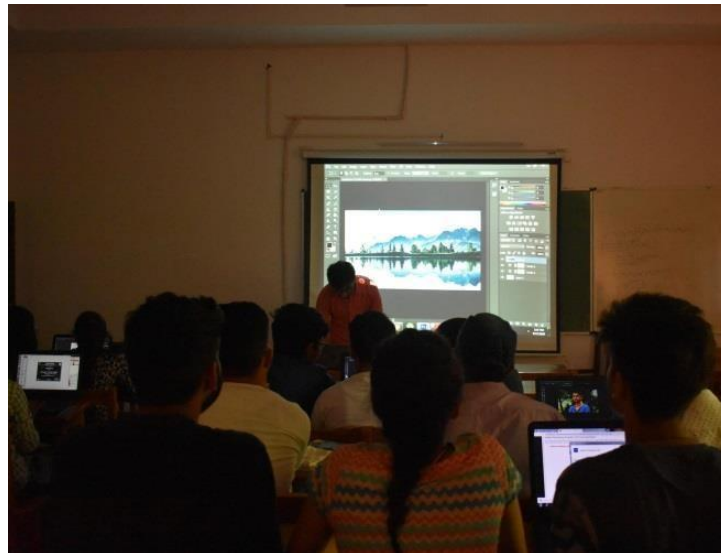
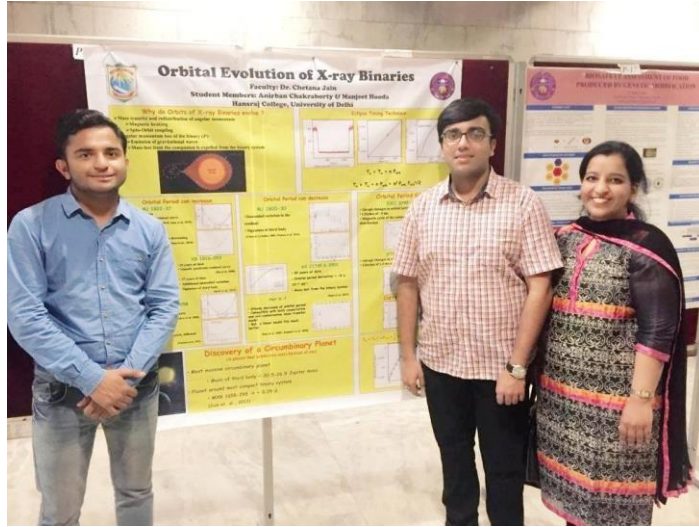


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Name of the Event 2: Power Point Presentation and Poster Making Competition

Date of the Event: 2nd November 2017

A power point presentation and poster making competition was organized by the society on 2nd November, 2017. Students participated with great enthusiasm in the said competitions and the event was a great success.



Name of the Department/Society: **Department of Physics and Electronics/Lumen**

Name of the Event 3: Eureka, the annual fest of the Lumen society

Date of the Event: 22nd and 23rd February 2018

The much awaited event of the year- Eureka, the annual fest of the society was held on 22nd and 23rd February, 2018. Like every year it was the most exciting event of the year. The students toiled day and night with great zeal to prepare for the fest and make it as memorable as ever. On 22nd February the society put up game stalls like Break the buzzer, Frisbee tower, Pictionary etc. All these games saw a great number of excited participants from Hansraj and various other colleges. On 23rd, the game stalls were proceeded by the much awaited *treasure hunt* organized by the society members. A great number of teams participated in it and the winning team was given a whopping cash prize. The day ended on a merry note with a sense of satisfaction on the faces of all the team members.



Name of the Department/Society: Department of Physics and Electronics/Lumen

Name of the Event 4: Educational Visit to Narora Atomic Power Plant, Narora

Date of the Event: 16th September 2017

Department of Physics & Electronics, Hansraj College organized one day educational visit to Narora Atomic Power Plant for a group of 33 students funded by DBT Star College Scheme.

Objectives: To enhance the knowledge of students about

1. Nuclear and Particle Physics paper (DSE paper without any practical)
2. Government Policy on Nuclear Atomic Power Plant
3. Handling of nuclear materials
4. Indian contribution in this field NAPS
5. Safe guard of humans in any type of nuclear disaster
6. Job prospectus in this field

The organizing team:

1. Dr Pradeep Kumar, Convenor
2. Dr Ravikant Prasad, Coordinator
3. Dr Tanuj Dhawan
4. Dr Shivani Agarwal
5. Mr Dibyajyoti Das
6. Ms Shagun Nagpal
7. Mr Chhatarpal

Narora Atomic Power Plant is a public sector undertaking under the Department of Atomic Energy, Government of India which is located at about ~ 180 kms from Delhi on 16th September, 2017.

The trip started from Hansraj College, Delhi at about 6.30 am. A small briefing was made by Dr. Pradeep Kumar related to the visit. The journey lasted about 5 and half hour and we reached there at 12:30 pm. As soon as the bus entered the outskirts of Nuclear Atomic Power Station, a scenic view was everywhere with blissful greenery. It was situated on the bank Ganga river in Narora district. It was high alert, tight security area. Our mobile phones, cameras were submitted at entry gate.

Students were taken to a mess first by bus because it was lunch time. Then students were taken to a Homi Jahangir Bhabha seminar room and shown PPT on Nuclear Atomic Power Station at Narora and other places in India, functioning of NAPS, the preventive measure taken to minimize the possibility of any hazardous accident at the NAPS. A guest lecture was delivered by Mr. Mukesh Sharma, Training Officer, NAPS. He gave a brief description about the power plant through an interactive presentation. He explained about the growing need of nuclear energy in the near future.



Narora Power plant has two units which produce 220 MW units of power. Later, the group was taken to Nuclear Energy Information Centre, where the process of nuclear power generation was clearly explained through a schematic flow diagram. Nuclear applications in various fields were visually explained for a better understanding.

Later, students were taken to main hub i.e. Turbine building. Safety measures were taken before witnessing the functioning of turbine. Students keenly observed the entire process and were excited to much awaited place, control room, for all as many devices that were controlling overall system were witnessed. A working view of many functioning devices created a sense of inquisitiveness amongst the students and students raised their queries which were resolved by the instructors accompanying them.

It was indeed an unique experience to visit for all of us the entirely automated Control Room and to see and experience of having Uranium Channels, operations of Turbine, Environmental Science Lab. It was a wonderful learning experience for everyone.

