

Report of Orientation Program of SILIZIUM

SILIZIUM, the official subject society of Department of Electronics, Deen Dayal Upadhyaya College, provides a platform to students to get an exposure to various technological events such as workshops with hands on training, lecture series by eminent speakers, symposiums and seminars. This motivates students to outreach conventional class room teaching, and also provides them an opportunity to interact with professionals and experts from different fields. Such events not only give them an exposure to the latest trends in advancement of science and technology, but also provide them avenues to implement their innovative ideas, thus driving an entire scientific evolution.

The society kick started its events for academic year 2018-19 by organizing an orientation programme on 6th August at 11.30 a.m. on an auspicious note with the lighting of the lamp of knowledge and wisdom by the invited guests and faculty members. The fresher's were provided with a glimpse of various realms of the society and its activities. The names of the student convener and the executives were announced. Mr. Deepak Singh from B.Sc.(H) Electronics Vth semester was chosen as the convener and his team comprised two members from each year: Mr. Murari Thakur and Mr. Ankit Singh (Vth semester), Mr. Ankit Yadav and Ms Jyoti (III sem) and Mr Ashutosh and Mr Sahil (Ist semester).

The main highlight of the occasion was lectures by renowned academicians and researchers of international repute: **Prof. Avinashi Kapoor** (Head, Department of Electronic Science, UDSC) and **Prof. Vinay Gupta** (Professor, Department of Physics and Astrophysics, University Of Delhi).

In today's time, when the entire scientific community of the world has launched numerous initiatives to reduce, reuse and recycle heat and energy and create new functionalities in technologies that form the backbone of modern society, Prof. Vinay very aptly chose the topic of his lecture as '**Multifunctional Material for Electronic Devices**'. He explained how a deep understanding of these new materials could provide next giant leaps in critical technologies and industries. He elaborated on the research done in his laboratory pertaining to sensors using piezoelectric materials, surface acoustic wave (SAW) gas sensors and biosensors, and energy harvesting using ferroelectric photovoltaic. The students were awed when he introduced to them the concept of special paint coated windows for harvesting solar energy. It was an extremely informative session for one and all.

The field of electronics is vast and ever-evolving with research being conducted into a wide variety of topics. Prof. Avinashi Kapoor in his lecture "**Cutting Edge Research Areas in Electronics**" introduced, among others, the concept of quantum computing, which uses quantum particles instead of binary bits, and may facilitate actual artificial intelligence. His talk emphasized on a holistic approach towards development. He encouraged students to develop a scientific temper and emphasised that a scientist is not the person who gives the right answers but the one who asks the right questions, thereby motivating students to not restrain their inquisitiveness.

These lectures were followed by interactive sessions with the students where enthusiasm of the students was perceptible. Mementos were presented to the invited speakers as a token of gratitude by the respected Principal. The event culminated with a vote of thanks proposed by Dr. Ravinder Kaur, teacher-in-charge, Department of Electronics and convener of SILIZIUM,