

# Post Graduate Govt. College for Girls Sector-11, Chandigarh



Report 2023-24

## DEPARTMENT OF CHEMISTRY

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**POST GRADUATE GOVERNMENT COLLEGE  
FOR GIRLS ,SECTOR - 11, CHANDIGARH**



**Department of Chemistry**

**( Under the aegis of IQAC)**

**ORGANISES EXPERT TALK ON**

**EXPANDING CHEMIST'S HORIZON : NANO AS A  
TOOL FOR MIMICKING NATURE**

**Dr. Ashish Pal**

**Scientist F ( Professor  
Institute of Nano science & Technology (Mohali)**

**September 11, 2023( Monday)  
10.30 AM, MULTIMEDIA**

Dr. Gurjeet Gujral  
Ms. Meenakshi Walia  
Dr. Harpreet Kaur  
Dr. Gagandeep Gyani  
**Organising Committee**

**Dr. Sadhana Verma  
Convener**

**Prof. (Dr) Anita Kaushal  
Principal and Patron**



## Report of Expert Talk

Under the able guidance of Prof. (Dr.) Anita Kaushal, Post Graduate Government College for Girls, Sector -11 Chandigarh, Department of Chemistry organized a talk on **Expanding Chemists Horizon: Nano as a tool for mimicking Nature** by Dr. Ashish Pal scientist at Institute of Nano Science and Technology, Mohali on 11 September, 2023 in Multimedia room.

Around **120 students** of MScI, MSc II and BSc. Honours attended the talk.

He informed the students about basics of nano science and nano particle which is ranging between 1 and 100 nm. He highlighted the practical application of these particles. Future approach of Nanoparticle drug delivery systems is targeted delivery and controlled release of therapeutic agents. Nanomaterials used for food packaging provide many benefits such as improved mechanical barriers, detection of microbial contamination, and potentially enhanced bioavailability of nutrients. Uses of hydrogels in health and lotus effect for environment was also discussed in the talk. He also briefed students about various scholarships like DST Inspire, DBT-JRF, INST Fellowship.

Overall, it is highly informative session which will foster the research aptitude among students and will enhance their horizons of knowledge.

## Report Of SUPW: Best Out Of Waste

Post Graduate Government College for Girls, Sector -11, Chandigarh, Chemistry Department organised Inter class competition SUPW activity /Best Out of Waste activity for the students of B.Sc I,II and III on 15-09-23.

Recycling and reusing the valuable waste material can result in development of fantastic and usable products. Rather than putting these waste materials into the landfills, various innovative and creative ideas can be put together to being something new and useful.

The students have crafted beautiful files, folders, envelopes and Invitation cards from waste materials. They have also also painted diyas and pot with creative ideas.

The purpose of this activity was to explore the students imagination, creativity and inculcate holistic approach in students. Around 30 students participated in these activities.

The following are the winners of this activity

Class	Activity	Ist Prize	IInd Prize	IIIrd PRIZE
B.Sc III	Pot making	Tajinder Kaur	Renuka	Swati
B.Sc III	Diya making	Shreya	Amandeep Kaur	Sandeep
B.Sc II	Files/Folders	Neha	Snehal	Ritika



Display of all items

## Report One Day Workshop: Exploring Nanoscience With Quintessential Experimental Techniques

Post Graduate Government College for Girls, Sector -11 Chandigarh, Chemistry Department organized a workshop on on “EXPLORING NANOSCIENCE WITH QUINTESSENTIAL EXPERIMENTAL TECHNIQUES “. at Indian Nano and Science Technology Mohali on 6.10.23 . Around **40** Students of M.Sc I and II chemistry participated in this event.

The program was inaugurated by Prof. Amitava Patra, Director INST Mohali on topic quantum dots. Quantum dots are nanoscale semiconductor particles with unique properties in the field of chemistry. They have gained significant attention due to their size-dependent electronic and optical properties. The Royal Swedish Academy of Sciences has decided to award the Nobel Prize in Chemistry. They planted an important seed for nanotechnology .The Nobel Prize in Chemistry 2023 rewards the discovery and development of quantum dots, nanoparticles so tiny that their size determines their properties. These smallest components of nanotechnology now spread their light from televisions and LED lamps, and can also guide surgeons when they remove tumour tissue, among many other things.

Students were introduced to new concepts and methods through visual demonstrations and experimentation. Overall it was an informative session for students.



**Students at INST Mohali**