

Report of Physics Department

(2016-17)



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DAV College for Women

Sector-36, Chandigarh

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Department Name: Physics Department

Session: 2016-17

Names of Courses offered:

1. B.Sc. (Non Medical and Vocational)- Three year Degree Course (Semester system).
2. B.Sc. (Hons.) Physics.

FACULTY DETAILS:

1. Publications:

Permanent Faculty/ Contractual faculty	Title of Paper	Title of the Journal with ISSN	Month/ Year
Dr. Yogita Batra (Permanent)	Semiconductor nanophase materials: fundamental and theoretical aspects	New Horizons, Vol XIV, 143-150, 2017, ISSN 2277- 5218	2017
Dr. Yogita Batra (Permanent)	Growth of large-area 2D MoS ₂ arrays defined locations using stencil lithography.	Journal of Nanoscienc Nanotechnology 18 1824-1832, ISSN:1533-4880, IF	2016
Dr. Yogita Batra (Permanent)	A low-cost, sulfurization free approach to control optical and electronic properties of Cu ₂ ZnSnS 4 via precursor variation	Solar Energy Materials and Solar Cells 157, 820-830. ISSN: 0927-0248, IF: 4.784	2016
Dr. Renu Bala (Permanent)	Study of weakly interacting trapped Bose Gas	Eur. Phys. J.B, 89: 228 (2016).	2016

2. Activities Organized by Physics Department:

➤ Lectures:

- ✓ To create awareness of the fascinating facts and figures of the phenomenon called superconductivity among students, Prof. Klaus Morawetz, Professor at Munster University of Applied Sciences, Germany, delivered a lecture on the topic “Levitating trains and superconductivity” on Feb 14, 2017.
- ✓ Dr. A K. Chowdhary delivered a lecture on Lab safety on the occasion of National Science day on Feb 28, 2017.
- ✓ Dr. Prem Sagar beautifully explained that how calendars serve as a link between cosmos and mankind in the lecture “Scientific Basis of Indian and Modern Calendars”. He talked elaborately on Indian and international calendars.

- **Workshops:** Physics Department organized two workshops;
 - ✓ Experimental Physics
 - ✓ Extraction of oil from mustard and almond seeds.

- **Celebration of Physics fest. Eureka -2016:** With a vision to promote Physics as well as to provide the students a platform for showcasing their talent, Department of Physics instituted PHYSICS SOCIETY. Events like Poster Making, Power Point Presentations, Scientific cartoons, Working Models were organized.

3. Visits Organized by Department

- One day visit to Central Scientific Instrumentation Organization (CSIO), Chandigarh.
- One day visit to Institute of Nano Science and Technology (INST), Mohali.
- One day visit to Central Forensic Science Laboratory (CFSL), Chandigarh.
- One day visit to UIET Panjab University, Chandigarh.
- One day visit to Osaw Industrial Products Pvt.Ltd. (INDOSAW), Ambala.

STUDENTS' DETAILS

- 50 students participated in lecture on lab safety.
- 40 students attended the workshop on Experimental Physics.
- 100 students of UG classes participated in various activities like Poster Making, Power Point Presentations, Scientific cartoons and Working Models organized in Eureka fest.