



**DEPARTMENT OF PHYSICS**  
**CHAUDHARY DEVI LAL UNIVERSITY, SIRSA**  
**(Established by the State Legislature Act 9 of 2003)**

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**OTHER INFORMATION**

**Major Research Project:**

Project title:	“Investigations on technologically important nano-sized metal oxides and their binary systems prepared by sol- gel route”
Name of Faculty:	Dr. Sushil Kumar
Grants received:	Rs. 11,24,300/-
Period :	01.04.2013-31.03.2016
Funding agency:	U.G.C., New Delhi

**Academic Activities:**

The department is engaged in organizing scientific events like Conferences / Seminars/ Extension lectures time to time for the benefit of PG students, Research scholars and Faculty members.

- National Conference on “Emerging Trends in Physics and Materials Science, ETPMS-2015” was organized on March 9-10, 2015 by the Department of Physics.
- National Seminar on “Recent Trends in Science & Technology, NSRTST-2015” was organized on Feb. 21 by the Faculties of Physical Sciences and Life Sciences.
- On the Occasion of National Science Day, Feb. 28, Science Conclave-2015 was organized by the Faculties of Physical Sciences and Life Sciences.
- Several Extension Lectures of Eminent Professors/Scientists have been organized by the Department from time to time.

The Department has established a ‘Physical Society’ which organizes various Co-Curricular and Cultural activities in the Department such as Science/Physics Quiz, Seminars, Group discussion, Poster making, Rangoli, PPT presentation, Celebration of Teachers Day & National Science Day, Educational tours etc..

**Ph.D. Awarded:**

Sr.No.	Name	Supervisor/Co-supervisor
1.	Bhajan Lal	Prof. P. Aghamkar/ Dr. Sushil Kumar
2.	Anand Kumar	Dr. Sushil Kumar/ Dr. Vazid Ali
3.	Ajay Garg	Dr. Sushil Kumar/ Dr. R.P. Chauhan
4.	Navneet Ahlawat	Prof. P. Aghamkar/Dr. Ashish Agarwal
5.	Rachna	Prof. P. Aghamkar
6.	Nidhi Sharma	Prof. P. Aghamkar/Dr. Sushil Kumar

**Ph.D. Submitted:**

Sr. No.	Name	Supervisor/Co-supervisor
1.	Pawan Kumar	Dr. Dharmavir Singh/ Dr. Dharmbir Singh
2.	Shyam Sunder	Prof. Praveen Aghamkar/ Dr. Sushil Kumar
3.	Shri Bhagwan Bhardwaj	Dr. Ram Mehar Singh/ Prof. S.C. Mishra
4.	Rajesh Parmar	Prof. Praveen Aghamkar/ Dr. R.S. Kundu
5.	Narinder Kumar	Dr. Sushil Kumar/ Dr. Rajesh Kumar
6.	Manju Lather	Prof. P. Aghamkar/Prof. Sujata Sanghi

**Ph.D. Pursuing:**

Sr. No.	Name	Supervisor/Co-supervisor	Research Topic
1	Saruchi	Dr. Sushil Kumar	Studies on sol-gel derived nanodimensional metal oxides and their binaries.
2	Surbhi	Dr. Sushil Kumar	Investigations on structural, optical and thermal aspects of nanoscaled metal oxides and their binary systems.
3	Dharmveer	Dr. Ram Mehar Singh/ Dr. Harish Kumar	Synthesis and characterization of metal nanocomposites.
4	Mukesh Chander	Dr. Sushil Kumar/ Dr. Rajesh Kumar	Study of ionic transport through synthesized nanopores in polymeric membranes and their applications.
5	Indu	Dr. Dharamvir Singh	Synthesis, structural and optical characterization of some ii-vi semiconducting nanomaterials.
6	Nisha Mann	Dr. Sushil Kumar/ Dr. R. P. Chauhan	Measurement of natural radioactivity in different building construction materials in western haryana.
7	Rajive Kumar	Dr. Ram Mehar Singh/ Dr. Anita Rani	Measurement of x-ray fluorescence cross-sections in the atomic range ( $11 < z < 92$ ) and their applications using EDXRF.
8	Shishpal	Dr. Dharamvir Singh	Growth & characterization of semi-organic non-linear optical crystals.

9	Monika	Dr. Ram Mehar Singh/ Dr. Rajesh Kharab	A study of breakup reactions involving loosely bound nuclei.
10	Anjali Mann	Dr. Dharamvir Singh/ Dr. Vinod Prasad	Coherent control of atomic & molecular processes in intense laser fields.
11	Ashok Kumar	Dr. Ram Mehar Singh/ Dr. Jawahar Lal	Study of quantum noise reduction (squeezing) in some non-linear optical processes
12	Narender Kumar	Dr. Sushil Kumar	Structural, magnetic and electrical characterization of some nano ferrites (single/mixed/doped) synthesized by wet chemical method
13	Meenakshi Bansal	Dr. Dharamvir Singh/ Prof. P. Aghamkar	Study of structural and magnetic properties of some nanocomposites: synthesized by wet chemical route
14	Amrik Singh	Dr. Dharamvir Singh/ Prof. Devendra Mohan	Influence of dopants on the performance of dye sensitized solar cells
15	Sandeep Kumar	Dr. Dharamvir Singh/ Dr. Dharambir Singh	Study of electronic and optical properties of some wide band gap semiconductors
16	Anju Jindal	Prof. P. Aghamkar/ Prof. Ashish Agarwal	Synthesis of some nanocrystalline multiferroics by wet chemical technique and their characterization

### **Academic Bodies:**

#### **UGBOS:**

Dr. Sushil Kumar	CDLU, Sirsa	Chairperson
Prof. Praveen Aghamkar	CDLU, Sirsa	Member
Dr. Dharamvir Singh	CDLU, Sirsa	Member
Sh. Sham Lal Phutela	G. N. College, Sirsa	Member
Sh. K.S. Gill	G.C.W., Fatehabad	Member
Sh. Suresh Bamnia	JCD College, Sirsa	Member
Prof. R.K. Moudgil	KU, Kurukshetra	Outside Expert
Prof. Devendra Mohan	KU, Kurukshetra	Outside Expert

#### **PGBOS&R:**

Dr. Sushil Kumar	CDLU, Sirsa	Chairperson
Prof. Praveen Aghamkar	CDLU, Sirsa	Member
Dr. Dharamvir Singh	CDLU, Sirsa	Member

Dr. Ram Mehar Singh  
Prof. S.K. Tripathi  
Prof. Ashish Agarwal

CDLU, Sirsa  
PU, Chandigarh  
GJUS&T, Hisar

Member  
Outside Expert  
Outside Expert

**Faculty of Physical Sciences:**

Prof. Vikram Singh	Chairpersons, CSA & Chem.	Dean
Prof. Aseem Miglani	Chairperson, Maths.	Member
Dr. Sushil Kumar	Chairperson, Physics	Member
Prof. Praveen Aghamkar	Department of Physics	Member
Dr. (Mrs.) Rachna	Department of Physics	Member
Sh. Kuldeep Kumar	A.R. (Academic)	Member