



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title		First Name	Deepti	Last Name	Goel	Photograph
Designation	Assistant Professor					
Address	22/37 First Floor, West Patel Nagar ,New Delhi-110008					
Phone No. Office						
Residence Mobile	9312340692					
Email	deeptigoel@gmail.com					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.						
M.Phil.						
PG	Punjab Agricultural University, Ludhiana				2003	
UG	Punjab University, Govt. College for Women, Ludhiana				2000	
Any other qualification						
Career Profile						
TEACHING EXPERIENCE:						
INSTITUTION	DESIGNATION	CLASSES		TAUGHT FROM	TAUGHT	
Khalsa College for Women, Ludhiana, P.U.	Adhoc Lecturer	B.Sc-II, B.Sc-III		22 nd Jul,03.	17 th M	
Guru Nanak Girls College, Ludhiana, P.U.	Permanent lecturer	B.Sc-II, B.Sc-III		1 st Jul,04.	31 st Ma	
Gargi College, (University of Delhi)	Adhoc Assistant Professor	B.Sc.Phy.(H)-I, B.Sc.Phy.(H)-III, B.Sc.Phy.Sc.-I, B.Sc.Life.Sc.-I, B.Sc.Chem.(H)-I		21 st Jul,08 22 nd Nov,08 9 th Jan.09 22 nd Jul,09	20 th No 23 rd De 6 th Ma 21 st No	

			24 th Nov,09	30 th Ap
Kalindi College, (University of Delhi)	<i>Guest Lecturer</i> 2. <i>Adhoc Assistant Professor</i>	B.Sc.Phy.(H)-I, B.Sc.Phy.(H)-II, B.Sc.Phy.(H)-III B.Sc.Phy.(H)-I, B.Sc.Phy.(H)-II, B.Sc.Phy.(H)-III	Aug, 09 21 st Jul,10	Mar, 7 th Jun
Daulat Ram College, (University of Delhi)	<i>Guest Lecturer</i>	B.Sc.Chem.(H)-II B.Sc.Maths.(H)-II	Feb,11	Apr,
Maitreyi College, (University of Delhi)	<i>Adhoc Assistant Professor</i>	B.Sc.Phy.(H)-I, B.Sc.Phy.(H)-II, B.Sc.Phy.(H)-III, B.Sc. Phy.Sc.-II	28 th Jul, 11	21 st Ma
Deshbandhu College, (University of Delhi)	<i>Adhoc Assistant Professor</i>	B.Sc.Phy.(H)-I, B.Sc.Phy.(H)-II, B.Sc.Phy.(H)-III, B.Sc.Phy.Sc.-I, B.Sc.Phy.Sc.-II, B.Sc.Phy.Sc.-III	23 rd Jul, 12	Till D
IGNOU	<i>Academic Counsellor</i>	B.Sc.Practicals	Since 2009	201

Administrative Assignments

Member of Cultural Committee 'Sabrang' -2014, 2015 organised by Deshbandhu College.

Member of Physics Science Society 'PHYSICA' of Deshbandhu College.

Participated as **Member Organising Committee** and **Resource Person** in the '**INSPIRE Internship Program-2012 ,2014 AND 2017 organized** by Deshbandhu College, University of Delhi.

Areas of Interest/Specialization

Condensed Matter Physics

Research Interest Magnetism in solids is a subject, which continues to demand attention because of its technological and industrial importance. The magnetic material technology is targeted towards providing,"Extra strong magnets having small sizes". One of the possible methods to attain this is to blend two or more appropriate elements so as to increase their molecular magnetic moment, hence it's

magnetization.

My research interest is to develop a formalism for spin polarization due to d-band metal impurities in metals where impurity is treated in the tight binding approximation while the host metal is treated in the free electron approximation. The spin polarization caused is used in calculating the magnetic moment on V, Cr and Fe impurities in Cu based alloys. This formalism is used to study other magnetic properties, giant magnetic moment, electronic structures and also electric field gradients.

Modern magnets finds its new application in the field of Recent High Speed Railway Projects, Magnetic Suspension, Current Braking, Rotary Actuators, Magnarails etc. Magnetic material promise of making an even greater impact on the future.

Subjects Taught

Waves and Optics			
Quantum Mechanics			
Mathematical Physics			
Thermal Physics			
Mechanics			
Solid State Physics			

Research Guidance

List against each head (If applicable):

1. Supervision of awarded Doctoral Thesis
2. Supervision of Doctoral Thesis, under progress
3. Supervision of awarded M.Phil. dissertations
4. Supervision of M.Phil. dissertations, under progress

NA

Publications Profile

List against each head (If applicable) (as Illustrated with examples)

1. Books/Monographs (Authored/Edited)
2. Research papers published in Refereed/Peer Reviewed Journals
 - a) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals
 - b) Research papers published in Refereed/Peer Reviewed Conferences
 - c) Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences
3. Other publications (Edited works, Book reviews, Festschrift volumes, etc.)

REFERRAL JOURNALS.

Magnetic Moments on 3d-impurities in Cu-based alloys.

Deepti Gupta and J. Singh.

J Res Punjab Agric Univ, 42(2):184-96, June 2005. Print ISSN : 00486019, Online ISSN : 2277-1271.

Conference Organization/ Presentations

List against each head (If applicable)

1. Organization of a Conference:

Member of Organising Committee of the International Conference on Physics, Society and Technology ICPST-2019, to be held on 17-19Jan, 2019, organised by Department of Physical, Deshbandhu College.

2. Participation as Paper/Poster Presenter

A paper entitled ' Giant magnetic moments in Pd-based alloys ' was presented in Oral Presentation Category at Sixth Punjab Science Congress held at Sant Longowala Institute of Engineering and Technolog, Longowala from 7th –9th February, 2003.

A paper entitled ' Magnetic moments on 3d-impurities in Cu-based alloys' was presented in Oral Presentation Category at Seventh Punjab Science Congress held at Guru Nanak Dev University, Amritsar from 7th –9th February 2004.

Participated in the contest for the **Young Scientist Award** and presented **a paper entitled 'Electronic structure of magnetic and nonmagnetic impurities in metals'** at Seventh Punjab Science Congress held at **Guru Nanak Dev University, Amritsar from 7th –9th February, 2004.**

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

AWARDS

Bhai Bal Mukand Gold Medal awarded in Post Graduation by Punjab Agricultural University for securing the first position in **Master of Science (Physics) program**.

Received an **Award of Honor 2001-2002** for good academic performance in Post Graduation by **Saasca** (Society for Advancement of Academics, Sports and Cultural Activities) of Punjab Agricultural University.

Received **Merit Certificate** in Post Graduation by Punjab Agricultural University.

Awarded **College Color** by **Government College for Women** in Graduation on account of attending the N.C.C's Vayu Sainik Camp held at Yehalanka in Bangalore

Received **N.C.C's C-Certificate**.

SCHOLARSHIPS

Received **Merit State scholarship** for 2 years on the basis of Xth performance

Received **Merit State scholarship** for 2 years on the basis of XIIth performance

Received 3 years scholarship in Graduation under the scholarship scheme by **Nehru Sidhant Kendra Trust**.

Received PAU merit fellowship for 2 years during Post graduation.

EXTRA CURRICULAR ACHIEVEMENTS

Participated in the (Inter- School) "**Gold Spot on the Spot Painting Competition 1993**".

Awarded **academic prize** for standing third in Chemistry in B.Sc-I.

Awarded **academic prize** for standing second in Chemistry in B.Sc-II.

Bagged the third position in **4x100mts Relay Race** in the Annual Athletic Meet, 1995.

Bagged the second place in **500 mts. Sack Race** in the Annual Athletic Meet in B.Sc (I).

Awarded Certificate for excellent performance in **NCC** during the Annual Athletic Meet in B.Sc. (III).

Attended '**Combined Annual Training Camp**' held at Ramgarhia Girl College, Ludhiana, 1998 and at BCM Sen. Sec. School, Ludhiana, 2000.

Attended **All India Vayu Sainik Camp –99** held at Bangalore.

Participated in the **Aero Quiz –99** held at the Aeronautical Society of India, Bangalore Branch.

Association With Professional Bodies

- *Editing*
- *Reviewing*
- *Advisory*
- *Committees and Boards*
- *Memberships*
- *Office Bearer*

NA

Other Activities

PARTICIPATION IN CONFERENCES / SYMPOSIA / SEMINARS / WORKSHOPS

Attended the 'GENERAL ORIENTATION COURSE-68' at ASC, Amritsar from

2nd June, 2006- 29th June, 2006.

A paper entitled ' Giant magnetic moments in Pd-based alloys ' was presented in Oral Presentation Category at Sixth Punjab Science Congress held at Sant Longowala Institute of Engineering and Technolog, Longowala from 7th –9th February, 2003.

A paper entitled ' Magnetic moments on 3d-impurities in Cu-based alloys' was presented in Oral Presentation Category at Seventh Punjab Science Congress held at Guru Nanak Dev University, Amritsar from 7th –9th February 2004.

Participated in the contest for the ***Young Scientist Award*** and presented ***a paper entitled 'Electronic structure of magnetic and nonmagnetic impurities in metals' at Seventh Punjab Science Congress held at Guru Nanak Dev University, Amritsar from 7th –9th February, 2004.***

Participated in ***National Seminar on 'New trends in Nanotechnology and Applications'.*** ' held on 27-28 Sep, 2018 in Atma Ram Sanatan Dharma College, University of Delhi.

Participated as ***Member Organising Committee and Resource Person*** in the '***INSPIRE Internship Program-2012 ,2014 AND 2017*** organized by Deshbandhu College, University of Delhi.

Participated in ***National Workshop on Technical Terminology in Science Teaching*** by ***Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of***

Higher Education held on October 26-27,2017 in Deshbandhu College, University of Delhi.

Participated in '**International Conference on Light-Cone Physics,**' held on Dec 10-15, 2012 at Department of Physics & Astrophysics, University of Delhi.

Participation in '**Indo German Workshop on Advanced Materials for future energy requirements,**' held on Nov-29 - Dec 1, 2012, at Delhi University Conference Centre.

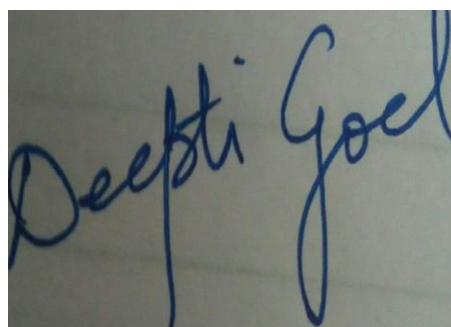
Attended the '**Second National Workshop on Quantum Mechanics:Theory and Application**' held at Deen Dayal Upadhyaya College,University of Delhi during October 22-23,2010.

Attended the '**General Orientation Course – 68' at ASC Amritsar** from 2nd June 2006 – 29th June 2006.

Participation in '**UGC Sponsored National Conference of Physics & Modern Application of Lazer**' held on Nov 17-18, 2006 at Lyallpur Khalsa College, Jullundur.

Participated in seminar on Feb 4, 2006 Organised by Physics Association of SCD Govt. College, Ludhiana, the topics were

- 1.Lazer Studies
2. Demonstration & Display of Physics Experiments.



u
re of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.