

Ms. Kirandish Kaur
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Department of Basic Sciences
Guru Nanak College for Girls,
Sri Muktsar Sahib, 152026.
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Area of Interest: Theoretical Chemistry, Organic Chemistry

Teaching Experience:

- 9 years teaching experience in Guru Nanak College for Girls, Sri Muktsar Sahib since 2011 onwards.

Academic Background:

- Pursuing Ph.D, PU, Chandigarh
- M.Sc(HS) Chemistry: Department of Chemistry and Centre of Advanced Studies in Chemistry, Panjab University Chandigarh -Session 2008-2010
- B.Sc. Medical: Khalsa College for Women, Ludhiana-Session 2005-2008
- 10+2: Govt. Sen. Sec. School for Girls, Fraidkot-session 2003-2005
- 10th: Guru Nanak Misssion High School, Panjgrain Kalan: Session 2002-2003.

Project Work: During M.Sc. (HS) IInd Year, I have done research work on the topic “Synthesis and Characterisation of alpha-Aminosulphoxides.”

Faculty Development Programmes/Training Camps:

- Orientation Programme OP- 14th organized by GJUS&T Hisar in May, 2013 sponsored by UGC.
- Summer Programme organized by Guru Nanak Dev University, Sri Amritsar from 16.06.2017 to 06.07.2017 sponsored by UGC.

- ARPIT-Refresher Course in Chemistry for Higher Education Facult 2019 by AICTE.
- C.A.T.C. Camp organized by Unit No. 4 (Pb) Air Sqn NCC from 05.10.2005 to 16.10.2005.

Achevements & Awards:

- Prepared proposal and received grant from NCW, New Delhi to organize Legal Awareness programme in college.
- Convener of One day National Seminar on Legal Awareness sponsored by National Commission for Women, New Delhi held at Guru Nanak College for Girls, Sri Muktsar Sahib on 26.02.2020.
- Co-convenor of National Seminar on Emerging Research Trends in Experimental Physics on 22.02.2019.
- Co-coordinator of DST INSPIRE Internship Camp organized by Department of Basic Sciences on 23-27 September 2019.
- Organizer of two day BRNS-IANCAS National workshop on Nuclear Sciences and Applications of Radioisotopes on 9-10 March, 2019.
- Associated Editor of Souvenir cum Abstract book of National Seminar ‘ERTEP-2019’ conducted on 22.02.19.
- Selected for the Participation in Workshop on Evolution of Electronic Structure Theory & Experimental Realization (EESTER 2018) organized by SRM Institute of Science and Technology & Indian Institute of Technology, Madras in Association with MRSI Computational Materials Science Subject Group, Chennai.
- Organized quiz competition in Pratibha 2018: Interschool Competitions on 24.01.2018.
- Conducted Nationwide Test ‘Constitutional & Legal Rights of Women’ on 24.12.18.
- Cleared CSIR-JNET in National Eligibility Test (June-2010) and secured 127 Rank.

- Cleared LS-NET in National Eligibility Test (December-2009) and secured 37 Rank.
- Cleared O-CET Test conducted by Panjab University, Chandigarh in 2008 and secured 4th Rank.
- Cleared CET Test conducted by Punjab Agriculture University, Ludhiana in 2008 and secured 3rd Rank.

Membership of National committees:

- Life member of Punjab Academy of Sciences, Punjabi University, Patiala (Punjab).
- Member of American Physical Society.

Administrative Work:

- Subject Incharge Chemistry
- Incharge Student Absentee Record of College
- Incharge Internal Complaint Committee of College
- Block Incharge/supervisor
- Tutorial Incharge
- Incharge departmental house examination
- Member of Admission Committee
- Member of college NAAC team
- Member of UBA committee
- Member of Student Greivances Cell of college
- Member of Extension Activities Committee of college
- Ex-Member of AQAR report writing committee
- Ex-member of publicity committtee
- Ex-member of college RTI committee
- Ex-member of college canteen committee

Publications:

- Structural and Magnetic Properties of $\text{BaCo}_x\text{Fe}_{12-x}\text{O}_{19}$ ($x=0.2, 0.4, 0.6 \text{ \& } 1.0$) Nanoferrites Synthesized Via Sol-Gel Method in World Journal of Condensed Matter Physics, 2011 (1) 101-104.
- Structural, Magnetic, Electrical and Optical Properties of $\text{Co}_{0.6}\text{Zn}_{0.4}\text{Fe}_2\text{O}_4$ prepared via Sol-Gel Auto combustion Route in AIP conference Proceedings.
- DFT Study of Structural, Electronic, Magnetic and Elastic Properties of GaP and $\text{Ga}_{0.75}\text{X}_{0.25}\text{P}$ ($\text{X}=\text{Cr, Mn, Fe}$) in Applied Physics A (123) 2017.
- Ab-Initio study of structural and Electronic Properties of GaP and $\text{Ga}_{0.875}\text{Fe}_{0.125}\text{P}$ using first principal calculations International in journal of Advance Research in Science and Engineering 2017 (6) 1736-40.
- Study of Effect of Hydrostatic Pressure on Structural, Electronic and Magnetic Properties of $\text{In}_{0.75}\text{Cr}_{0.25}\text{P}$ in AIP conference proceeding 2020.
- Emergence of half-metallic ferromagnetism in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ ($x=0.25, 0.125 \text{ and } 0.0625$) AIP conference proceeding 2020.

Papers presented in Conferences:

- Legal Aid and Awareness in India: Issues and Challenges in One day National Seminar on Legal Awareness sponsored by NCW, New Delhi held at Guru Nanak College for Girls, Sri Muktsar Sahib on 26.02.2020.
- DFT study of effect of Hydrostatic pressure on properties of $\text{In}_{0.75}\text{Mn}_{0.25}\text{P}$ in 4th National Seminar Recent Advances in Materials Science organized by Department of Physics Goswami Ganesh Dutta S.D.College, Chandigarh on 01.02.2020.
- Study of Effect of Hydrostatic Pressure on Structural, Electronic and Magnetic Properties of $\text{In}_{0.75}\text{Cr}_{0.25}\text{P}$ in 64th DAE Solid State Symposium organized by Bhabha Atomic Research Centre, Mumbai sponsored by BRNS, Department of Atomic Energy, Government of India On 18-22,12.2019.
- Study of Barrium Ferrites Nanoparticles synthesized via citrate Sol Gel Method

in National Seminar on Emerging Research Trends in Experimental Physics (ERTEP-2019) on 22.02.2019.

- Participate in two days National Workshop on Nuclear Sciences and Applications of Radioisotopes held at Guru Nanak College for Girls, Sri Muktsar Sahib on 9-10 March 2019.
- DFT study of Structural, Electronic and Magnetic Properties of $\text{Ga}_{0.875}\text{Mn}_{0.125}\text{P}$ in RTCEMS-2018 held at DAV College, Abohar on 18.01.2018.
- Ab-Initio study of structural and electronic properties of GaP and $\text{Ga}_{0.875}\text{Fe}_{0.125}\text{P}$ using first principle calculations in Recent Trends in Technology and its impact on Economy of India held at Guru Nanak College for Girls, Sri Muktsar Sahib on 24 October 2017
- Study of structural, elastic, electronic and magnetic properties of $\text{Ga}_{0.875}\text{Cr}_{0.125}\text{P}$ in International Conference ICNFESMH-2017 held at NITTTR, Sec. 26 Chandigarh on 21.05.2017.
- International conference "Harnessing Engineering, Technology, and Innovation for Sustainable Growth (HETIS-2016)" held on Oct.2016 at Panjab University, Chandigarh.
- Two days Legal Awareness Programme on Women Related Laws held on March 8-9, 2016 in Central University of Punjab, Bathinda.
- 5th Chandigarh Science Congress CHASCON 2011 held on February 26-28, 2011 at Department of Chemistry and Centre of Advanced Studies in Chemistry, Chandigarh.
- International Conference on Advances in Condensed and Nano Materials(ICACNM-2011) held on February 22-26, 2011 at Department of Physics, Panjab University, Chandigarh
- Professor Ram Chand Paul International Conference on Emerging Trends in Chemistry held on February 11-12, 2011 at Department of Chemistry and Centre of Advanced Studies in Chemistry, Chandigarh.

- International Conference on Nanotechnology, Nanotech India 2010 held on November 19-20, 2010 at Gokulam park, Kochi, Kerala.

Subjects Taught: Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Environmental Sciences.

Languages Known: Punjabi, English and Hindi.

Software Knowledge:

- Text Formatting and office computing: MS Office, Libre Office.
- Computing platforms: Linux-Ubuntu, Windows.
- Programming Languages: Fortran, C.
- Theoretical software package: Siesta, Avogadro, Argus Lab