

KIRTAJOT KAUR
Female, Married, Dob - 19Sep,1982

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EDUCATION

PERIOD	DEGREE/CERTIFICATE	INSTITUTE	SCORE
2008-2013	Phd (Physical Chemistry)	National Institute of Technology, Jalandhar	
2003-2005	MSc.Hons.(Chemistry)	G.N.D.U.(Amritsar-Campus)	65%
2000-2003	BSc.Hons.(Chemistry)	G.N.D.U.(Amritsar-Campus)	64%
1998-1999	(Class XII)	H.M.V.College,JALANDHAR	65%
1996-1997	(Class X)	Doaba Khalsa Model School,JALANDHAR	74%

WORK EXPERIENCE n PROFESSIONAL ACHIEVEMENTS

PROFESSIONAL ACHIEVEMENTS

- Cleared UGC-NET in 2005
- Did teaching assistantship for four years at N.I.T. Jalandhar
- Did project on synthesis and characterisation of complexes of Silver(I) with pyridine -2-thione and pyrimidine 2-thione in 2005 under the supervision of Dr. T.S Lobana from G.N.D.U ASR.
- Got a campus placement offer from a leading pharma company in R-n-D division.

Phd Achievements (Aug, 2008 – 2013)

Title- Studies of Molecular Interactions of Amino Acids in Aqueous Solutions of various Organic Salts
(Supervisor – Dr. Harsh Manchanda, Associate Professor – N.I.T. Jalandhar)

Papers Published/ Communicated

1. **Kirtanjot Kaur**, Harsh Kumar “Viscometric measurements of L-serine with antibacterial drugs ampicillin and amoxicillin at different temperatures: (305.15 to 315.15) K”. J Mol. Liquids, **2013**, 177, 49-53.
2. Amalendu Pal, Harsh Kumar, Bhupinder Kumar, Pooja Sharma, **Kirtanjot Kaur** “Thermophysical properties of ionic liquid {1-butyl-3-methylimidazolium bromide [bmim][Br] in alkoxyalkanols+water}mixtures at different temperatures.” J. Chem. Thermodyn. **2013**, 57, 182-188.
3. Harsh Kumar, **Kirtanjot Kaur** “Interaction of antibacterial drug ampicillin with glycine and its dipeptides analyzed by volumetric and acoustic methods at different temperatures” Thermochimica Acta, **2013**, 551, 40-45.
4. Harsh Kumar, **Kirtanjot Kaur** “Densities and speeds of sound of L-serine with aqueous solutions of antibacterial drugs at different temperatures” J Chem. Eng. Data, **2013** doi.org/10.1021/je3006425].
5. Harsh Kumar, **Kirtanjot Kaur** “Transport behavior of L-alanine, L-valine and L-leucine in ampicillin solutions over temperature range (305.15 to 315.15) K” J. Mol. Liquids, **2013**, 179, 67-71.
6. Harsh Kumar; **Kirtanjot Kaur**; Surinder Pal Kaur; Meenu Singla “Studies of volumetric and acoustic properties of trisodium citrate and tripotassium citrate in aqueous solutions of N-acetyl glycine at different temperatures” J. Chem. Therm. **2013**, 59, 173-181.
7. Harsh Kumar and **Kirtanjot Kaur** “Effect of dipotassium hydrogen phosphate on thermodynamic properties of glycine and L-alanine in aqueous solutions at different temperatures”. J. Chem. Thermodyn., **2012**, 53, 86-92.

8. Harsh Kumar, ***Kirtanjot Kaur*** "Investigation on molecular interaction of amino acids with aqueous solutions of antibacterial drug ampicillin with reference to volumetric and compressibility measurements" J Mol. Liquids, **2012**, 173, 130-136.
9. Harsh Kumar, ***Kirtanjot Kaur*** "Viscosities of Glycine and L-Alanine in (0.2 to 0.8) mol·kg⁻¹ Aqueous Dipotassium Hydrogen Phosphate Solutions at Different Temperatures" J Chem. Eng. Data, **2012**, 57, 3416-3421.
10. Harsh Kumar, ***Kirtanjot Kaur*** "Interactions of glycine, L-alanine and L-valine with aqueous solutions of potassium dihydrogen phosphate over temperature range (288.15 to 308.15) K". J. Solution Chem., **2012** (Accepted).
11. Harsh Kumar, ***Kirtanjot Kaur*** and Suresh Kumar "Apparent molar volumes and transport behaviour of glycine and L-valine in aqueous solutions of tripotassium citrate at T = (308.15 and 318.15) K". J Mol. Liquids, **2011**, 162, 89-94.
12. Harsh Kumar, Mandeep Kaur, Rekha Gaba and ***Kirtanjot Kaur*** Thermodynamics of binary liquid mixtures of cyclopentane with 2-propanol, 1-butanol and 2-butanol at different temperatures. J. Therm. Anal. Calori. **2011**, 105, 1071-1080.

Conferences Attended

- Presented posters on interaction of amino acids with aqueous solutions of potassium dihydrogen phosphate at T=(288.15 to 308.15) : A volumetric approach and Apparent molar volume and transport behaviour of L-glycine and L-valine in different concentrations of tri potassium citrate at 308.15 K and 318.15 K in first - 2009, second - 2010 and third-2011 National Conference on Recent Advances in Chemical and Environmental Sciences organised by M.M. Modi College Patiala
- Presented paper on Thermodynamics and acoustical studies of Glycine, L-Alanine and L-Valine in solutions of potassium dihydrogen phosphate from (288.15 to 308.15) K on Professor Ram Chand Paul International Conference on Emerging Trends in Chemistry organised by Punjab university Chd. on Feb. 2011.
- Presented paper on ultrasonic velocities and densities of some amino acids with aqueous solutions of potassium dihydrogen phosphate from (288.15 to 308.15) K at national conference on chemistry in our lives a organised by Arya post graduate college, panipat on march 2011.
- Presented poster on Interactions of glycine, L- alanine and L- Valine with aqueous solutions of potassium dihydrogen phosphate over temperature range. (288.15 to308.15)K national conference on thermodynamics of biological and chemical systems organised by M.D.U , Rohtakt on Nov.2011.
- Presented poster on Thermodynamic studies of molecular interactions of glycine and its dipeptides with drug ampicillin at different temperature range of T= 305.15 to 405.15 K on national conference organised by Punjab university Chd. on Dec. 2011.
- Invited talk on Studies of molecular interactions of drug ampicillin and amoxicillin with amino acids and peptides at chemical constellation cheminar an international conference organized by N.I. T. Jalandhar on September 2012.

WORK EXPERIENCE

1) **National Institute of Technology (Aug 08 to 2012)**

- **Taking M.Sc. Physical Chemistry Prctical Classes**
- **Participated in dance competition during CHEMMANIA -2010 organised by department of chemistry, N.I.T jalandhar.**
- **Participated in IPR day celebration at N.I.T jalandhar.**
- **Acted as a judge in AKMSC-science conclave- 2009**
- **Actively participated in the organisation of the programme organised by department of chemistry of N.I.T to honour N.T.S.A -2011.**

- Part of organising comitee in national conference organised by department of chemistry of N.I.T jalandhar.
- To complete various records regarding time tables, attendance ,student score sheets etc. for proper administration

2) Lyallpur Khalsa College, Jalandhar (Dec, 07 to May,08)

Worked as Lecturer in Chemistry Department

3) Lovely Institute of Higher Studies (Aug 06 to April 07)

Worked as Lecturer in Chemistry in Bio Technology Department

POSITIONS OF RESPONSIBILITY & ACHIEVEMENTS

- ◆ Member of Sports Soceity GNDU,Amritsar.
- ◆ Member of Placement Commitee in GNDU,Amritsar.
- ◆ Member Cultural Programmes Society in GNDU, Chandigarh .

EXTRA CURRICULAR INTERESTS

- ◆ Won accolodes and medals in various sports events in Athletics Meet.
- ◆ **Stood second in intra University basketball competition**
- ◆ Stood second in cultural competion JASHAN-2004

COMPUTER PROFICIENCY

Ms Office, Dos, Windows

Date 02/05/12

Kirtanjot Kaur
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