

(CV of Dr. Ganga Ram Chaudhary)

- Name:** Dr. Ganga Ram Chaudhary
- Designation:** Associate Professor (Physical Chemistry)
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- Area of Specialization:** Green Chemistry, Thermodynamics, Nano- and Environmental Chemistry
- Award/ Honours/ Fellowship:** \*Visited Japan under a Joint DST-JSPS project  
\*Best Paper Presentation award in 1<sup>st</sup> Himachal Pradesh Science Congress on Oct. 15-16, 2014

### 6. Highlight of Research work

I am actively engaged in the synthesis of metallic, metal oxide/sulphide nanomaterials via green methods and explore their potential applications for the elimination of contaminants from wastewater, as catalyst and as electrochemical sensors. Another field of research work deals with the systematic investigation of physicochemical properties of pure room temperature ionic liquids (RTILs) and their mixtures in frame of green chemistry. Further, we are investigating the applications of pure as well as aqueous/ non-aqueous mixtures of RTILs in removal of dyes and other contaminations from their aqueous solution. In addition, thermodynamic study of solvent mixtures of industrial and biological and is being investigated. Spectroscopic measurements are used to visualize molecular reorganization behaviour in different mixtures.

### 7. Research Project (Ongoing/Completed)

S.No.	Title	Agency	Period
1.	<b>Indo-US Partnership</b> on Green Chemistry/Engineering and Technologies Education, Research and Outreach for Sustainable Development	UGC F.No. L94-212o16(IC)	August 2016 –July 2019 Ongoing <b>Amount: Rs. 1,21,28,000/-</b> <b>(One Crore twenty one lakhs twenty eight thousand only)</b>
2.	Ultra fast and effective treatment of water contaminants using semiconducting nanomaterials	INST-Mohali F.No. 25(1)/2015-INST	April 2015 – April 2017 Ongoing <b>Amount: Rs. 10,00,000/-</b>
3.	Synthesis and characterization of metal oxide nanoparticles and its utility for the removal of water contaminants	SERB-DST NO SB/EMEQ-166/2013	October 2013 – Sept. 2015, Completed <b>Amount: Rs. 12,00,000/-</b>
4.	Thermophysical and Spectroscopic Properties of Aqueous/Non-aqueous mixtures of Ionic Liquids	UGC F.No. 39-703/2010	Feb. 2011 – Jan. 2014, Completed <b>Amount: Rs.7,80,500/-</b>
5.	Structure studies of electric double layer of organized amphiphile films using total reflection XAFS	DST-JSPS DST/INT/JSPS/P-129/11	May 2011 – May 2013 Completed <b>Amount: Rs. 3,50,000/-</b>

**8. List of publications (Total number of publications: 53; Citations: 400; h-index: 11)**

- i) Gurpreet Kaur, Preeti Garg, **Ganga Ram Chaudhary**, Role of Manganese based surfactant towards solubilization and photo-physical properties of fluorescein, *RSC Advances*, 6, 7066–7077 (2016)
- ii) Bare and cationic surfactants capped Tungsten trioxide nanoparticles based hydrazine chemical sensors: A comparative study, S. Shukla A. Umar S. Chaudhary, **G.R.Chaudhary** S.K. Kansal Surinder Kumar Mehta, *Sensors and Actuators B*, 230, 571–580 (2016).
- iii) 1-butyl-3-methylimidazolium tetrafluoroborate functionalized ZnO nanoparticles for removal of toxic organic dyes, Savita Chaudhary, Yesbinder Kaur, Ahmad Umar, **Ganga Ram Chaudhary**, *Journal of Molecular Liquids* 220 , 1013–1021 (2016)
- iv) S. Shukla, S. Chaudhary, A. Umar, **Ganga Ram Chaudhary**, S.K. Kansal, S.K. Mehta, Surfactant Functionalized Tungsten Oxide Nanoparticles with Enhanced Photocatalytic activity, *Chem. Eng. J.* 288, 423-431 (2016)
- v) Arun Kumar, Gurpreet Kaur, S.K. Kansal, **Ganga Ram Chaudhary**, S.K. Mehta, Enhanced solubilization of curcumin in mixed surfactant vesicles, *Food Chemistry* 199, 660–666 (2016)
- vi) (Cationic + nonionic) mixed surfactant aggregates for solubilisation of curcumin, Arun Kumar, Gurpreet Kaur, S.K. Kansal, **G.R. Chaudhary**, S.K. Mehta, *J. Chem. Thermodynamics*, 93, 115–122 (2016)
- vii) Multifaceted approach for the fabrication of metalomicelles and metallic nanoparticles using solvophobic bisdodecylaminepalladium (II) chloride as precursor, **Ganga Ram Chaudhary**, Prabjot Singh, Gurpreet Kaur, S.K. Mehta, Sandeep Kumar and Neeraj Dillbaghi, *Inorganic Chemistry*, 54, 9002–9012 (2015)
- viii) Dodecyl Ethyl Dimethyl Ammonium Bromide capped WO<sub>3</sub> nanoparticles: Efficient Scaffold for Chemical Sensing and Environmental Remediation, Sheifali Shukla, Savita Chaudhary, Ahmad Umar, **Ganga Ram Chaudhary**, S.K. Mehta, *Dalton Transactions*, 44, 17251-17260 (2015)
- ix) Comparative study of catalytic activity of ZrO<sub>2</sub> nanoparticles for sonocatalytic and photocatalytic degradation of cationic and anionic dyes, Pratibha Bansal, **Ganga Ram Chaudhary**, S.K. Mehta, *Chem. Eng. J.* 280, 475–485 (2015), DOI 10.1016/j.cej.2015.06.039
- x) An efficient and green synthesis of xanthenes derivatives using CuS quantum dots as heterogeneous and reusable catalyst under solvent free condition, Pratibha Bansal, **Ganga Ram Chaudhary**, Navneet Kaur, S.K. Mehta, *RSC Advances*, 5, 8205–8209 (2015), DOI: 10.1039/C4RA15045G.
- xi) Ultra fast and effective treatment of dyes from water with the synergistic effect of Ni doped ZnO nanoparticles and ultrasonication, Priya Saharan, **Ganga Ram Chaudhary**, Suman Lata, S.K. Mehta, Suman Mor, *Ultrasonics Sonochemistry* 22, 317–325 (2015) DOI:10.1016/j.ultsonch.2014.07.004.
- xii) Physicochemical Properties of New Formulations of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with Tritons, Shafila Bansal, Navneet Kaur, **Ganga Ram Chaudhary**, S.K. Mehta, A.S. Ahluwalia, *J. Chem. Eng. Data*, 59, 3988–3999 (2014) DOI: 10.1021/je500502a.

- xiii) A comparison on the performance of zinc oxide and hematitenanoparticles for highly selective and sensitive detection of para-nitrophenol, Kulvinder Singh, Appanjeet Kaur, Ahmad Umar, **G. R. Chaudhary**, Sukhjinder Singh, S.K. Mehta, *Journal of Applied Electrochemistry*, 45, 253–261 (2015), DOI 10.1007/s10800-014-0762-3
- xiv) Recyclable CuO nanoparticles as heterogeneous catalyst for the synthesis of xanthenes under solvent free conditions, **Ganga Ram Chaudhary**, Pratibha Bansal, Navneet Kaur, S.K. Mehta, *RSC Advances*, 4, 49462–49470 (2014), DOI: 10.1039/C4RA07620F.
- xv) Equilibrium and Thermodynamics of Auramine-O Adsorption from Aqueous Solution by Activated Carbons, Monica Mangla, Meenakshi Goyal, **Ganga R Chaudhary** and Madan L Sharma, *Journal of Applicable Chemistry*, 3 (4), 1719-1726 (2014).
- xvi) Aggregation behavior of Dioctadecyldimethylammonium chloride in mixed cationic surfactant system, Arun Kumar, Gurpreet Kaur, **Ganga Ram Chaudhary**, S.K. Mehta, *J. Mol. Liq.* 198, 37–43 (2014).
- xvii) Synthesis of CeO<sub>2</sub>-ZnO Nanoellipsoids as potential scaffold for the efficient detection of 4-nitrophenol, Kulvinder Singh, Ahmed. A. Ibrahim, Ahmad Umar, Arun Kumar, **G.R. Chaudhary**, Sukhjinder Singh, S.K. Mehta, *Sensors and Actuators B: Chemical* 202, 1044–1050 (2014).
- xviii) Solubilization efficiency of mixed cationic aggregates towards aromatic compounds, Arun Kumar, Gurpreet Kaur, **Ganga Ram Chaudhary**, S.K. Mehta, *Fluid Phase Equilibria* 375, 340–346 (2014).
- xix) Synthesis of highly luminescent water stable ZnO Quantum Dots as Photoluminescent sensor for Picric acid, Kulvinder Singh, **G. R. Chaudhary**, Sukhjinder Singh and S. K. Mehta, *Journal of Luminescence*, 154, 148–154 (2014).
- xx) Structural and interactional behavior of aqueous mixture of room temperature ionic liquid; 2-Hydroxyethyl-trimethylammonium L-Lactate, **Ganga Ram Chaudhary**, Shafila Bansal, S.K. Mehta, A.S. Ahluwalia, *J. Chem. Thermodyn.* 76, 134–144 (2014).
- xxi) Surfactant Modified Tungsten Oxide Nanoparticles with High Hydrazine Chemical Detection Sensitivity, Sheifali Shukla, Savita Chaudhary, S.K. Mehta, **Ganga Ram Chaudhary**, Ahmad Umar, *Sensors and Actuators B: Chemical*, 196, 231–237 (2014).
- xxii) Thermophysical and spectroscopic studies of pure 1-butyl-3-methylimidazolium tetrafluoroborate and its aqueous mixtures, **Ganga Ram Chaudhary**, Shafila Bansal, S.K. Mehta, A.S. Alhuwalia, *J. Sol. Chem.* 43, 340–359 (2014)
- xxiii) Recyclable CuS quantum dots as heterogeneous catalyst for Biginelli reaction under solvent free conditions, **Ganga Ram Chaudhary**, Pratibha Bansal, S.K. Mehta, *Chem. Eng. J.* 243, 217- 224 (2014).
- xxiv)  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> Nanospindles for Environmental Remediation: A Study on the Adsorption and Desorption Characteristics of Acridine Orange and Direct Red Dyes, **Ganga Ram Chaudhary**, Priya Saharan, Ahmad Umar, S.K. Mehta, S. Mor, *J. Nanosci. Nanotechnol.* 14, 3545-3551 (2014).
- xxv) Removal of water contaminants by iron oxide nanomaterials , Priya Saharan, **Ganga Ram Chaudhary**, S.K. Mehta, A. Umar, *J. Nanosci. Nanotechnol.* 14, 627-643, (2014).
- xxvi) Well-Crystalline ZnO Nanostructures for the Removal of Acridine Orange and Coomassie Brilliant Blue R-250 Hazardous Dyes, **Ganga Ram Chaudhary**, Priya Saharan, A. Umar, S.K. Mehta, S. Mor, *Sci. Adv. Mater.* 5, 1886-1894 (2013).

- xxvii) Applications of surface modified ionic liquid/nanomaterial composite in electrochemical sensors and biosensors, **Ganga Ram Chaudhary**, Shafila Bansal, Priya Saharan, Pratibha Bansal, S.K. Mehta, *BioNanoScience*, 3, 241-253 (2013)
- xxviii) Influence of carbon-oxygen surface groups on adsorptive removal of malachite green dye from water, Kumari Reena, M. Goyal, M. Bhagat, **G.R. Chaudhary**, M.L. Sharma, *Indian J. Chem. Technol.* 40, 87-94 (2013).
- xxix) Fast and efficient removal of hazardous Congo Red (Azo Dye) from its aqueous solution using Iron Oxide Nanoparticles, **Ganga Ram Chaudhary**, Priya Saharan, S.K. Mehta, Suman Mor, A. Umar, *J. Nanoeng. Nanomanuf.* 3, 142-146 (2013).
- xxx) Adsorption of cationic, anionic and azo dyes via monodispersed Fe<sub>3</sub>O<sub>4</sub> nanoparticle, **Ganga Ram Chaudhary**, Priya Saharan, Arun Kumar, S.K. Mehta, S. Mor, A. Umar, *J. Nanosci. Nanotechnol.* 13, 3240-3245 (2013).
- xxxii) Effect of  $\beta$ -cyclodextrin on the behaviour of thermophysical and spectroscopic properties of binary mixtures of (isomeric butanediol + pyrrolidin-2-one), **Ganga Ram Chaudhary**, Shafila Bansal, Arun Kumar, S.K. Mehta, *J. Chem. Thermodyn.* 57, 266–275 (2013).
- xxxiii) Thermophysical and spectroscopic studies of room temperature ionic liquid, 1-butyl-3-methylimidazolium hexafluorophosphate in Tritons, **Ganga Ram Chaudhary**, Shafila Bansal, S.K. Mehta and A.S. Alhuwalia, *J. Chem. Thermodyn.*, 50, 63-70 (2012).
- xxxiiii) Removal of Coomassie Brilliant Blue R-250 Dye from Water Using  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles, **Ganga Ram Chaudhary**, Priya Saharan, Gagandeep Kaur, S.K. Mehta, and Suman Mor, *J. Nanoeng. Nanomanuf.*, 2, 304-308 (2012).
- xxxv) Non-Enzymatic Glucose Sensor Based on Well-Crystallized ZnO Nanoparticles, Kulvinder Singh, Ahmad Umar, Arun Kumar, **G.R. Chaudhary**, Sukhjinder Singh, S.K. Mehta, *Sci. Adv. Mater.* 4, 1–7 (2012).
- xxxvi) Multicomponent Gold Hybrid Structures: Synthesis and Applications, S. K. Mehta, Sakshi Gupta, Khushboo, Kulvinder Singh, and **G.R. Chaudhary**, *Rev. Adv. Sci. Eng.* 1, 103-118 (2012).
- xxxvii) Self aggregation and solution behavior of copper and nickel based surfactants, S.K. Mehta, Ravneet Kaur, **G.R. Chaudhary**, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 403, 103– 109 (2012).
- xxxviii) Ultra-High Sensitive Hydrazine Chemical Sensor Based on Low-Temperature Grown ZnO Nanoparticles, S.K. Mehta, Kulvinder Singh, Ahmad Umar, **G.R. Chaudhary**, Sukhjinder Singh, *Electrochimica Acta*, 69, 128-133 (2012).
- xxxix) Well-Crystalline  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles for Hydrazine Chemical Sensor Application, S.K. Mehta, Kulvinder Singh, Ahmad Umar, **G.R. Chaudhary**, Sukhjinder Singh, *Sci. Adv. Mater.* 3, 962-967 (2011).
- xl) Behavior of papain in mixed micelles of anionic-cationic surfactants having similar tails and dissimilar head groups, S.K. Mehta, Bhawna, and **Ganga Ram**, *J. Colloid Interface Sci.* 344, 105-111 (2010).
- xli) Thermodynamic, transport and spectroscopic studies for mixtures of isomeric butanediol and *N*-methyl-2-pyrrolidinone, S.K. Mehta, **Ganga Ram**, Rajat, K.K. Bhasin, *J. Chem. Thermodyn.* 41, 1329-1338 (2009).
- xlii) Molecular interactions of  $\alpha, \omega$ -alkanediols in pyrrolidin-2-one: Thermophysical and spectroscopic measurements, S.K. Mehta, **Ganga Ram** and K.K. Bhasin, *J. Chem. Thermodyn.*, 40, 498-508 (2008).

- xlii) Structural and interactional studies of homologous series of  $\alpha, \omega$ -alkanediols in *N,N*-dimethylformamide, S.K. Mehta, **Ganga Ram**, V. Kumar and K.K. Bhasin, *J. Chem. Thermodyn.*, 39, 781-790 (2007).
- xliii) Regioselective Synthesis of Bis(2-halo-3-pyridyl) dichalcogenides (E = S, Se and Te) - Directed Ortho Lithiation of 2-Halopyridines, K.K. Bhasin, Neelam Singh, Shivani Doomra, Ekta Arora, Yogesh Nagpal, **Ganga Ram**, S.K. Mehta, *Bioinorganic Chemistry Applications*, 1-9 (2007).
- xliv) Synthesis and characterization of some  $\alpha$ -naphthyl selenium/tellurium derivatives: X-ray crystal structure of benzyl-1-naphthyl selenide and diphenylmethyl-1-naphthyl selenide, K.K. Bhasin, Neelam Singh, Rishu Dhiman, **Ganga Ram**, S.K. Mehta, R.J. Butcher, *J. Organometallic Chemistry* 691, 621-628 (2006).
- xlv) A comparative study of thermophysical and spectroscopic properties in mixtures of isomeric butanediol and *N,N*-dimethylformamide, S.K. Mehta, **Ganga Ram**, C. Mani and K.K. Bhasin, *J. Chem. Thermodyn.* 36, 836-848 (2006).
- xlvi) Effect of placement of hydroxyl groups in isomeric butanediol on the behaviour of thermophysical and spectroscopic properties of pyrrolidin-2-one, S.K. Mehta, **Ganga Ram** and K.K. Bhasin, *J. Chem. Thermodyn.* 37, 719-801 (2005).
- xlvii) Effects of progressive addition of oxyethylene groups on the thermodynamic properties of pyrrolidin-2-one and Tritons, S.K. Mehta, **Ganga Ram**, and A.K. Sharma, *J. Mol. Liq.* 122, 27-31 (2005).
- xlviii) Effect of oxyethylene groups on the behaviour of thermodynamic properties of Pyrrolidin-2-one and Poly (ethylene glycols), S.K.Mehta, **Ganga Ram** and A.K. Sharma, *Fluid Phase Equilib.* 220, 153-160 (2004).
- xlix) Influence of substitution in the aromatic ring on the behaviour of thermodynamic properties of pyrrolidin-2-one and aromatic hydrocarbons, S.K. Mehta, **Ganga Ram**, S. Sharma and A.K. Sharma, *J. Mol. Liq.* 111, 133-140 (2004).

## 9. List of Book/ Book Chapter

- i) Application of Metal Oxide Nanomaterials for the Removal of Dyes and Heavy Metals, **Ganga Ram Chaudhary**, Priya Saharan, S. K. Mehta, Ahmad Umar, *Encyclopedia of Semiconductor Nanotechnology* (2016) In Press.
- ii) Molecular interactions of mixtures of diols in non-aqueous solvents, Ganga Ram Chaudhary, (2014) *LAMBERT Academic Publishing*, ISBN 978-3-659-61538-2.
- iii) Ozone Depletion and Its Harmful Effects on Environment and Humans, R. Kumar, R. Kaur, T. Kaur, **G.R. Chaudhary**, *Climate Change and Environmental Issues*, *TERI Press* (2016) ISBN 978-81-7993-590-3
- iv) Water Pollution Status, Sources and Remediation, Savita Chaudhary, Yesbinder Kaur, Moondeep Singh, **Ganga Ram Chaudhary**, *Climate Change and Environmental Issues*, *TERI Press* (2016) ISBN 978-81-7993-590-3

## 10. List of Invited lectures

- i) "New formulations of room temperature ionic liquid based solvent systems and their applications" in XXXI Annual Conference of Indian Council of Chemists, organized by Department of Chemistry, Panjab University, Chandigarh, on December 19-21, 2010.

- ii) “Structural and interactional behavior of ionic liquid, 1-butyl-3-methylimidazolium hexafluorophosphate in Tritons and their performance in removal of Acridine Orange and Coomassie Brilliant Blue R-250 dyes from their aqueous solutions” in North Zone Meet of Chemical Research Society of India, organized by University of Jammu, on Sept. 22-24, 2011.
- iii) “Physico-chemical studies of aqueous/non-aqueous mixtures of room temperature ionic liquids and their performance in removal of dyes from their aqueous solutions” at Kyushu University Fukuoka, Japan on March 6-21, 2012.
- iv) “Surfactant assisted preparation of ZnO nanostructures and their potential application for the removal of Acridine Orange and Coomassie Brilliant Blue R-250 dyes from aqueous solutions” in XXXI Annual Conference of Indian Council of Chemists, organized by Saurashtra University Rajkot, on Dec. 26-28, 2012.
- v) “An overview of utilization of metal oxide nanoparticles for preferential and enhanced adsorption of dyes from aqueous solutions” in 50<sup>th</sup> Annual Convention of Chemists, organized by Department of Chemistry, Panjab University, Chandigarh, on December 04-07, 2013.
- vi) “Preferential and enhanced adsorption of cationic and anionic dyes by ZnO nanoparticles from their aqueous solutions” in 6<sup>th</sup> National Conference on Recent Advances in Chemical & Environmental Sciences organized by Multani Mal Modi College, Patiala on November 13-14, 2013.
- vii) “Iron Oxide Nanoparticles: Environment safeguard against water contamination” in International Conference on Nanotechnology in the Service of Health, Environment & Society NanoSciTech 2014 organized by Panjab University, Chandigarh on February 13-15, 2014.
- viii) “Nanotechnology and Green Chemistry” Lecture Cum Workshop organized by Doaba College, Jalandhar on March 10, 2014.
- ix) “Synthesis and Applications of Nanomaterials” Special Lecture under TEQIP organized by Giani Zail Singh Punjab Technical University Campus, Bathinda (Punjab) November 3, 2014.
- x) “Ultra fast and effective treatment of dyes from metal oxide nanomaterials” in Professor Ram Chad Paul National Symposium on innovations in chemical Sciences (RCPNS-2015) organized by Department of Chemistry, Panjab University, Chandigarh, on March 20-21, 2015.
- xi) “Organic transformations catalyzed by nanomaterials” Special lecture organized by Jagdish Chandra D.A.V. College Dasuya on April 23, 2015
- xii) “Nanotechnology for Purification of Wastewater” Motivational Program for Talented School Students of Punjab organized by Department of Zoology, Panjab University, Chandigarh, on July 20, 2015.
- xiii) “Application of Nanotechnology for Wastewater treatment” Special lecture organized by Rayat-Bahra University on December 09, 2015.
- xiv) “Fundamentals of Nanotechnology and its application for Wastewater treatment” Special lecture organized by CGC Technical Campus Jhanjeri, Mohali (Punjab) on February 24, 2016.
- xv) “Nanotechnology for Water Reclamation and Sustainability” INSPIRE Internship Camp-2016 organized by MLSM College Sunder Nagar on June 24, 2016.

**11. Research Guidance**

S.No.	Number Enrolled	Thesis Submitted	Degree Awarded
Ph.D or Equivalent	<b>07</b>	-	<b>06</b>

**12. National/International Conferences/Symposia participated/Presented Paper/attended:  
Total Number = 50****13. Details of credential and other significant contributions**

S.No.	Details
1.	<b>Convener</b> – International conference on “Interdisciplinary areas with chemical sciences” (ICIACS2013) held on 30 Oct-1 Nov 2013, organized by P. U., Chandigarh in association with INST, Mohali
2.	<b>Organizing Secretary</b> – i) Professor Ram Chand Paul VI National Annual Symposium” on Emerging areas in Chemical Sciences” organized by the Department of Chemistry, Panjab University, Chandigarh, 5 <sup>th</sup> -6 <sup>th</sup> March 2010 ii) International conference R. C. Paul, organized by the Department of Chemistry, Panjab University, Chandigarh, Feb,11-12, 2011 iii) International conference on innovations in chemistry for sustainable development ( ICSD-2011), organized by the Department of Chemistry, Panjab University, Chandigarh, Dec. 01-03, 2011. iv) Prof. Ram Chand Paul National symposium on frontiers in chemical sciences, organized by the Department of Chemistry, Panjab University, Chandigarh, Feb. 24-25, 2012 v) Asian Network for Natural & Unnatural Materials (ANNUM 3), organized by the Department of Chemistry, Panjab University, Chandigarh, Feb. 28- March 2, 2015.
3.	<b>Convener</b> -PGAPMEC (for sessions: 2012-2013 and 2013-2014)
4.	<b>Convener</b> -UGAPMEC (for sessions: 2009-2010, 2010-2011 and 2011-2012)
5.	<b>Secretary</b> - UGAPMEC (for sessions: 2007-2008 and 2008-2009)
6.	<b>General Secretary</b> - Department alumni Cell (2012- till date)
7.	<b>Teacher Representative</b> - Placement Cell (2009-2014)
8.	<b>President</b> – Chemical Society (2013-2014 and 2016-till date)
9.	<b>Coordinator</b> (Chemistry Department): Choice-Based Credit System, B.Sc (Hons)