


<b>Dr. Suman Gahlyan</b>		<b>Lastest</b>
<b>Designation</b>	Assistant Professor	
<b>Qualification</b>	Post doctorate, Ph.D, M.Sc	
<b>Area of Interest</b>	Chemistry	
<b>Email</b>	drsuman.applied@piet.co.in	
<b>D.O.J.</b>	25 AUGUST, 2022	

#### Faculty Profile

<b>Faculty Name</b>	<b>Dr. Suman</b>
<b>Designation</b>	Assistant Professor
<b>Qualification</b>	Post doctorate, Ph.D, M.Sc
<b>Email</b>	drsuman.applied@piet.co.in
<b>Area of Interest</b>	Chemistry
<b>Work Experience (Total)</b>	<b>6</b>
• Teaching	<b>4</b>
• Research	<b>6</b>

<ul style="list-style-type: none"> <li>• Industry</li> </ul>	
<ul style="list-style-type: none"> <li>• Others</li> </ul>	
<b>Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level</b>	Thermodynamics, Quantum Chemistry, Polymer, Engineering Chemistry
<b>Membership of Professional Bodies</b>	
<b>Research Publications</b>	
<ul style="list-style-type: none"> <li>• Research Papers UGC-CARE</li> </ul>	<b>37</b>
<ul style="list-style-type: none"> <li>• Research Papers SCOPUS</li> </ul>	<b>35</b>
<ul style="list-style-type: none"> <li>• Research Papers WoS/SCI/ABDC</li> </ul>	
<ul style="list-style-type: none"> <li>• List of Publications</li> </ul>	<b>Attached as Annexure I</b>
<b>Book and Chapter Publications</b>	
<ul style="list-style-type: none"> <li>• Books Authored published by International Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Books Authored published by National Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Publication of Chapter in Edited Books</li> </ul>	
<ul style="list-style-type: none"> <li>• Editor of Book by International Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Editor of Book by National Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Translation Work of Book</li> </ul>	

<ul style="list-style-type: none"> <li>List of Book and Chapter Publications</li> </ul>	
<b>Patents</b>	
<ul style="list-style-type: none"> <li>Published</li> </ul>	
<ul style="list-style-type: none"> <li>List of published patent(s)</li> </ul>	
<ul style="list-style-type: none"> <li>Filed</li> </ul>	
<ul style="list-style-type: none"> <li>List of filed patent(s)</li> </ul>	
<b>PhD Guidance</b>	
<ul style="list-style-type: none"> <li>Degree Awarded</li> </ul>	
<ul style="list-style-type: none"> <li>Thesis Submitted</li> </ul>	
<b>M.Tech. Guidance</b>	
<ul style="list-style-type: none"> <li>Degree Awarded</li> </ul>	
<ul style="list-style-type: none"> <li>Thesis Submitted</li> </ul>	
<b>Research Project</b>	
<ul style="list-style-type: none"> <li>List of Research project</li> </ul>	
<b>Consultancy</b>	
<ul style="list-style-type: none"> <li>List of Consultancy</li> </ul>	
<b>Awards &amp; Honours</b>	
<ul style="list-style-type: none"> <li>List of Awards &amp; Honours</li> </ul>	<ol style="list-style-type: none"> <li>(CSIR-UGC) Junior Research Fellowship (JRF) in Dec 2011 and secured 081/0748 rank.</li> <li>2. GATE score card in Feb 2012 with</li> </ol>

	<p>623/8925 AIR.</p> <p>3. 3. Best Paper Award in National Conference ASDCS- 2014 DCRUST on 14 March 2014.</p> <p>4. 4. CSIR, India Fellowship for Post-Doctoral Research in 2018.</p> <p>5. 5. BK-21 (PLUS), South Korea Fellowship for Research Professor (Sept 2019-Feb 2020).</p> <p>6. 6. Merit Certificate for performance and commendable work done under National Service Scheme in 2007.</p>
<b>Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference</b>	
<ul style="list-style-type: none"> <li>• International (Abroad)</li> </ul>	
<ul style="list-style-type: none"> <li>• International (Within Country)</li> </ul>	
<ul style="list-style-type: none"> <li>• National</li> </ul>	
<ul style="list-style-type: none"> <li>• List of published papers</li> </ul>	
<b>Organizing National Conference/ International Conference/ FDP/STTP</b>	
<ul style="list-style-type: none"> <li>• List of Conference/FDP/STTP</li> </ul>	

committee	
<b>Social Contributions and Sports</b>	
<ul style="list-style-type: none"><li>• <b>List of Social Contributions and Sports</b></li></ul>	

## ANNEXURE I

**Total; 36 (SCI 31, Scopus 05); h-index:15; i- index 26; Citation: 567. Total impact factor (152) Conferences: National & International 11 and attended Seminar or Workshops.**

S.No.	Title of publication	Author Name	Journal Name	Year	Volume	Page No.	Impact Factor 2019	Indexed by
1	Measurement and modelling of solid-liquid equilibria, density and viscosity of fatty acid methyl or ethyl esters	Suman Gahlyan, Sanjeev Maken, So-Jin Park	Journal of Molecular Liquids	2020	314	113628	6.21	WOS/ SCOPUS
2	Thermodynamic Excess Properties for Ternary Benzene + n-Heptane + n-Octane System at Temperature 298.15 K to 318.15 K: Measurement and Correlation	Suman Gahlyan, Rekha Devi, Sweety Verma, Manju Rani, Sanjeev Maken	Journal of Chemical and Engineering Data	2020	65	2964–2970	2.694	WOS/ SCOPUS
3	Thermodynamics of ternary mixtures with gasoline additive: Volumetric, acoustic and optical properties	Suman Gahlyan, Payal Bhagat, Rekha Devi, Sweety Verma, Manju Rani, Sanjeev Maken	Journal of Molecular Liquids	2020	304	112740	6.21	WOS/ SCOPUS
4	Measurement and correlation of thermodynamic properties of ternary mixtures of oxygenated fuel	Suman Gahlyan, Rekha Devi, Sweety Verma, Manju Rani, So-Jin Park, Sanjeev Maken	Korean Journal of Chemical Engineering	2020	37	1181–1194	3.309	SPRINGER

5	Volumetric, acoustic and optical studies of ternary mixture of diisopropyl ether, n-heptane and n-octane	Suman Gahlyan, Manju Rani, Rekha Devi, So-Jin Park, Sanjeev Maken	Journal of Molecular Liquids	2020	In press		6.21	WOS/ SCOPUS
6	Thermodynamic properties of ternary oxygenated fuel mixtures	Suman Gahlyan, Rekha Devi, Manju Rani, Surinder Singh, Ankur Gaur, Payal Bhagat, Sweety Verma, Sanjeev Maken	Journal of Molecular Liquids	2020	313	113541	6.21	WOS/ SCOPUS
7	Density and viscosity studies of mixtures of oxygenate with n-alkanes (C9-C12) at (298.15, 308.15 and 318.15) K: Application of Prigogine–Flory–Patterson and Bloomfield and ...	Suman Gahlyan, Payal Bhagat, Sanjeev Maken, So-Jin Park	Journal of Molecular Liquids	2020	306	112859	6.21	WOS/ SCOPUS
8	Volumetric, acoustic and optical studies of ternary mixture of diisopropyl ether, n-heptane and n-octane	Suman Gahlyan, Manju Rani, Rekha Devi, So-Jin Park, Sanjeev Maken	Journal of Molecular Liquids	2020	306	112605	6.21	WOS/ SCOPUS
9	Thermophysical properties of ternary liquid mixture of diisopropyl ether (1) + ethanol (2) + n-heptane (3): Measurement and correlation	Pinki Kashyap, Manju Rani, Suman Gahlyan, Sanjeev Tiwari, Dinesh Pratap, Maken	Journal of Molecular Liquids	2020	In Press		6.21	WOS/ SCOPUS

10	Volumetric, enthalpic and VLE studies of binary mixtures of isomers of butyl chloride with cyclohexane at 298.15 K	S. Gahlyan, N. Verma, S. Verma, M. Rani, S.J. Park, S. Maken	Journal of Molecular Liquids	2020	298	111946	6.21	SCOPUS/ WOS/ UGC
11	Synthesis of Mesoporous SBA-16 and SBA-16/ZnO <sub>2</sub> Nano-Composite Thin Film for Anti-Biofilm Application	Atul Kumar, Suman Gahlyan, Rajesh Thakur, Sunita Devi, Surender Duhan	Journal of Nanoscience and Nanotechnology	2020	20	4210-4215	1.657	SCOPUS/ WOS/ UGC
12	Antibacterial Efficiency of Zn, Mg and Sr Doped Bioactive Glass for Bone Tissue Engineering	Narender Ranga, Suman Gahlyan, Surender Duhan	Journal of Nanoscience and Nanotechnology	2020	20	2465-2472	1.657	SCOPUS/ WOS/ UGC
13	Excess enthalpy of ethanol+ n-alkane (C <sub>6</sub> -C <sub>9</sub> ) or cyclohexane or diisopropyl ether mixtures at 298.15 K: Measurement and modeling	S. Verma, S. Gahlyan, J. Kaur, S. Maken	Journal of Molecular Liquids	2019	292	112359	6.21	SCOPUS/ WOS/ UGC
14	Volumetric and acoustic properties of fuel additive oxygenate with hydrocarbons	R Devi, S Gahlyan, M Rani, S Maken	Journal of Molecular Liquids	2019	276	753-769	6.21	SCOPUS/ WOS/ UGC
15	Transport and acoustic properties of potential renewable oxygenated fuel additives: butanol + xylene	S Verma, S Gahlyan, M Rani, S Maken	Journal of Molecular Liquids	2019	274	300-308	6.21	SCOPUS/ WOS/ UGC



16	Thermodynamic and acoustic properties of binary mixtures of diisopropyl ether, benzene and alkanes at 298.15, 308.15 and 318.15 K: Prigogine-Flory-Patterson theory and Graph theory	R Devi, S Gahlyan, M Rani, S Maken	Journal of Molecular Liquids	2019	275	364-377	6.21	SCOPUS/ WOS/ UGC
17	Optical and acoustic properties of binary mixtures of butanol isomers as oxygenates with cyclohexane, benzene and toluene at 308.15 K	S Verma, S Gahlyan, M Rani, S Maken	Korean Chemical Engineering Research	2018	56(5)	663-678		SCOPUS/ UGC
18	Application of Flory-Treszczanowicz-Benson model and Prigogine-Flory-Patterson theory to Excess Molar Volumes of Isomers of Propanol with Cyclohexane or n-Hexane	S Verma, S Gahlyan, M Rani, S Maken	Korean Chemical Engineering Research	2018	56(4)	536-541		SCOPUS/ UGC
19	Intermolecular Interactions and Refractive Indices: Experimental Data and Prediction of Oxygenated Fuel Additives with Hydrocarbons	R Devi, S Gahlyan, M Rani, S Maken	Asian Journal of Chemsitry	2018	30(9)	2054-2062		SCOPUS/ UGC
20	Volumetric, acoustic and optical properties of binary mixtures of 2-propanol with n-alkanes (C6-C10) from 293.15 K to 303.15 K	P Kashyap, M Rani, S Gahlyan, DP Tiwari, S Maken	Journal of Molecular Liquids	2018	268	303-314	6.21	SCOPUS/ WOS/ UGC

21	Excess molar enthalpies of n-alkanol (C2-C10) with n-decane at 298.15 K: Flory–Treszczanowicz–Benson model	S Verma, S Gahlyan, M Rani, S Maken	Journal of Molecular Liquids	2018	265	468-472	6.21	SCOPUS/ WOS/ UGC
22	Transport Properties and Modeling of Viscosity for Binary Mixtures of Butanol Isomers + Hydrocarbons	S. Verma, S Gahlyan, M. Rani, S Maken	Arabian Journal for Science & Engineering	2018	43(11)	6087–6096	2.334	SCOPUS/ WOS/ UGC
23	Viscometric and FTIR studies of molecular interactions in 2-propanol+hydrocarbons mixtures at 298.15 and 308.15 K	S Gahlyan, S Verma, M Rani, S Maken	Korean Journal of Chemical Engineering	2018	35	1167-1173	3.309	SCOPUS/ WOS/ UGC
24	Excess molar enthalpy of oxygenate + hydrocarbon mixtures: Application of Flory-Treszczanowicz–Benson model and Graph theoretical approach	Suman Gahlyan, Sweety Verma, Manju Rani, Sanjeev Maken	Journal of Molecular Liquids	2018	258	142-146	6.21	SCOPUS/ WOS/ UGC
25	Measurements and Modeling of Excess Molar Enthalpy of Binary Mixtures of Oxygenate and Hydrocarbons	Suman Gahlyan, Sweety Verma, Manju Rani, Sanjeev Maken	Asian Journal of Chemistry	2018	30(4)	731-735		SCOPUS/ WOS/ UGC
26	Excess molar enthalpy of oxygenate + hydrocarbon mixtures: Application of Flory-Treszczanowicz–Benson model and Graph theoretical	Suman Gahlyan, Sweety Verma, Manju Rani, Sanjeev Maken	Journal of Molecular Liquids	2018			6.21	SCOPUS/ WOS/ UGC

	approach							
27	Ultrasonic Speed and Isentropic Compressibility of 2-propanol with Hydrocarbons at 298.15 and 308.15 K	Suman Gahlyan, Sweety Verma, Manju Rani, Sanjeev Maken	Korean Chemical Engineering Research	2017	55 (5)	668-678		SCOPUS/ UGC
28	Volumetric studies of isomers of propanol and butanol with n-decane: Flory–Treszczanowicz–Benson model and Prigogine–Flory–Patterson theory	Suman Gahlyan, Sweety Verma, Manju Rani, Sanjeev Maken	Journal of Molecular Liquids	2017	244	233-240	6.21	SCOPUS/ WOS/ UGC
29	Viscometric Studies of Molecular Interactions in Binary Mixtures of Formamide with Alkanol at 298.15 and 308.15 K	Suman Gahlyan, Sweety Verma, Manju Rani, Sanjeev Maken	Korean Chemical Engineering Research	2017	55 (4)	520-529		SCOPUS/ WOS/ UGC
30	Ultrasonic speeds, viscosities, refractive indices and FT-IR spectroscopic studies of an oxygenate with aliphatic and aromatic hydrocarbons at 298.15 K and 308.15 K	Suman Gahlyan, Manju Rani, Sanjeev Maken	Journal of Molecular Liquids	2016	219	1107-1123	6.21	SCOPUS/ WOS/ UGC
31	Exploring the Phytochemicals of Delphinium ajacis and their Applications in Biocontrol Activity against Some Plant	Kalpna Pratap, Verinder Kaur, Suman Gahlyan, Anshu Jangra, Anubhav Pradeep, Manju Rani,	Journal of Chemical and Pharmaceutical Research	2016	8(9)	18-Nov		SCOPUS/ WOS/ UGC

	Pathogens	Sanjeev Maken						
32	Ultrasonic study on molecular interactions in binary mixtures of formamide with 1-propanol or 2-propanol	Manju Rani, Suman Gahlyan, Ankur Gaur, Sanjeev Maken	Chinese Journal of Chemical Engineering	2015	23	689-698	2.627	SCOPUS/ WOS/ UGC
33	Modeling of thermodynamic properties of an oxygenate + aromatic hydrocarbon: Excess molar enthalpy	Suman Gahlyan, Manju Rani, Sanjeev Maken, Hweeung Kwon, Kyungjae Tak, Il Moon	Journal of Industrial and Engineering Chemistry	2015	23	299-306	5.278	SCOPUS/ WOS/ UGC
34	Measurement and correlation of excess molar volumes for mixtures of 1-propanol and aromatic hydrocarbons	Suman Gahlyan, Manju Rani, Inkyu Lee, Il Moon, Sanjeev Maken	Korean Journal of Chemical Engineering	2015	32	168-177	3.309	SCOPUS/ WOS/ UGC
35	Excess molar volume of binary mixtures containing an oxygenate	Suman Gahlyan, Manju Rani, Sanjeev Maken	Journal of Molecular Liquids	2014	199	42-50	6.21	SCOPUS/ WOS/ UGC
36	Ultrasonic studies of molecular interactions in binary mixtures of formamide with some isomers of butanol at 298.15 K and 308.15 K	Manju Rani, Suman Gahlyan, Hari Om, Naveen Verma, Sanjeev Maken	Journal of Molecular Liquids	2014	194	100-109	6.21	SCOPUS/ WOS/ UGC