




## Faculty Details for Gargi College Website

<b>Name</b>	Dr. M. SARATHBABU		<b>Photograph</b>	
<b>Department</b>	Chemistry			
<b>Designation</b>	Assistant Professor			
<b>Mobile</b>	+91 88820 12136			
<b>Email id</b>	<a href="mailto:Sarathbabum_chem@yahoo.com">Sarathbabum_chem@yahoo.com</a> <a href="mailto:Sarababu_chem@yahoo.co.in">Sarababu_chem@yahoo.co.in</a>			
<b>Address</b>	Department of Chemistry, Gargi College, University of Delhi Delhi-110049			
<b>Educational Qualifications</b>	<b>Qualification</b>	<b>Title/Course</b>	<b>University</b>	<b>Year</b>
	Undergraduate	B. Sc. Chemistry	Thiagarajar College (MKU)	2005
	Postgraduate	M. Sc. Chemistry	Madurai Kamaraj University	2008
	M.Phil, Chemistry	Ketene Acetal Chemistry: Synthesis, Characterization and Theoretical Studies on Tetrahydro-pyrimidines.	Pondicherry University,	2009
	Ph.D.	Theory and experimental investigation of ohmic effect on the electrochemical reaction and double layer studies in ionic liquids at glassy carbon rough electrode.	University of Delhi	2016
<b>Career Profile</b>		<ul style="list-style-type: none"> <li>• 19<sup>th</sup> October 2015 to till date: Assistant Professor (Permanent), Gargi College, Delhi University. Work: Teaching, Invigilation, Paper evaluation.</li> <li>• From 9<sup>th</sup> August 2014 to 22<sup>nd</sup> May 2015: Assistant Professor (ad-hoc), Department of Chemistry, SGTB Khalsa College, University of Delhi, Delhi-100 007. Work: Teaching, Invigilation, Paper setter, Paper evaluation.</li> </ul>		



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	<ul style="list-style-type: none"><li>From 18<sup>th</sup> August 2015 to 23<sup>th</sup> September 2015: Assistant Professor (ad-hoc), Department of Chemistry, Zakir Hussain College, University of Delhi, Delhi-100 023. Work: Teaching.</li></ul>
<b>Award</b>	<ul style="list-style-type: none"><li>Qualified Junior Research Fellowship from Council of Scientific and Industrial Research (CSIR-NET-JRF), (Selected for SPM Interview) Delhi, India (June 2009). Reg. No: 104179.</li><li>Qualified GATE (Graduate Aptitude Test in Engineering) Exam held on April 2009 examination. Reg. No: 7480076.</li></ul>
<b>Publications</b>	<ul style="list-style-type: none"><li>Effect of Uncompensated Solution Resistance on Quasi-reversible Charge Transfer at Rough and Finite Fractal Electrode, R. Kant, <b><u>M. Sarathbabu</u></b> and S. Srivastav, <i>Electrochimica Acta</i>, 2013, 95, 237-245. DOI: 10.1016/j.electacta.2013.02.010</li><li>3-Benzyl-6-benzylamino-1-methyl-5-nitro-1,2,3,4-tetrahydropyrimidine, M. Kannan,<sup>a</sup> P. Manivel,<sup>a</sup> <b><u>M. Sarathbabu</u></b>,<sup>b</sup> R. Sathishkumar,<sup>c</sup> H. Surya Prakash Rao<sup>b</sup> and R. Krishnaa. *<i>Acta Cryst.</i> 2010. E66, o515</li></ul>
<b>Posters Presented on National and International Conferences/Workshop/Symposium</b>	<ul style="list-style-type: none"><li>Advanced training in mathematics for lecturers in geometric complex analysis from March 21, 2011 to April 2, 2011. Department of Mathematics, University of Delhi.</li><li>Participated in National seminar on "Frontiers in Natural Products Chemistry-2008 (FNPC-'08) held in Department of Natural products Chemistry, School of Chemistry. Madurai Kamaraj University on 20<sup>th</sup> and 21<sup>st</sup> March 2008.</li><li>Effect of uncompensated solution resistance on quasi-reversible charge transfer at rough and finite fractal electrode, 2<sup>nd</sup> INDO-ITALIAN WORKSHOP, Department of Chemistry, Delhi University, Delhi.</li></ul>



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	<ul style="list-style-type: none"><li>• Quasi-reversible Charge Transfer on Rough Glassy Carbon Electrode in Ionic Liquid Medium: Theory and Experiment, CRSI 16<sup>th</sup> NATIONAL SYMPOSIUM IN CHEMISTRY, Department of Chemistry, Indian Institute of Technology Bombay.</li><li>• Anomalous Chronoamperometric Response of Ferrocene in 1-Butyl-3-methylimidazolium hexafluorophosphate [BMIM][PF<sub>6</sub>] at Glassy Carbon Electrode: Theory and Experiment. 20<sup>th</sup> ISCB INTERNATIONAL CONFERENCE, Department of Chemistry, Delhi University, Delhi.</li></ul>
<b>Participation of Inter and Intra-college competitions such as Exhibition, Seminars and others.</b>	<ul style="list-style-type: none"><li>• Participated in various Seminars underwent training in workshop on “Green Chemistry” conducted by Pondicherry University.</li><li>• Participated in the “National Science Day Exhibition” conducted by Thiagarajar College on 28<sup>th</sup> Feb 2001 to 1<sup>st</sup> March 2001</li><li>• Participated in the “National Science Day Exhibition” conducted by Thiagarajar College on 28<sup>th</sup> Feb 2002 to 1<sup>st</sup> March 2002.</li><li>• Participated seminar on the topic “Optic Fiber Communication” conducted by Thiagarajar College on 30<sup>th</sup> Jan 2003.</li><li>• Participated seminar on the topic “Chemistry in the field of Medicine” conducted by Thiagarajar College on 25<sup>th</sup> Oct 2002.</li><li>• Participated in “Multitasking in the Intercollegiate Program in Chemistry” conducted by Lady Doak College, Madurai on 12<sup>th</sup> Feb 2002.</li><li>• Participated Quiz program conducted by American College on 25<sup>th</sup> Jan 2003.</li></ul>
<b>Subjects Taught</b>	<ul style="list-style-type: none"><li>• <b>Organic Chemistry:</b> Stereochemistry, Reaction mechanism, name reactions and nucleophilic and electrophilic</li></ul>



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	<p>substitution reaction in aliphatic and aromatic systems. Green chemistry.</p> <ul style="list-style-type: none"><li>• <b>Physical Chemistry:</b> Thermodynamics, Ionic equilibrium and Chemical Equilibrium.</li><li>• <b>Inorganic Chemistry:</b> Atomic structure, Chemical bonding, Solid state.</li><li>• <b>Practical organic:</b> Preparation organic compounds and their derivatives and chromatographic techniques.</li><li>• <b>Practical physical chemistry:</b> Thermo-chemistry and photochemistry.</li></ul>
<b>Areas of Interest/Specialization</b>	<p>Physical Chemistry (area of Quantum Chemistry, Spectroscopy, Group Theory, Thermodynamics and kinetics), Organic chemistry (functional group conversion, addition, elimination, substitution, condensation, rearrangements, oxidation and reduction, stereochemistry, conformational analysis, asymmetric synthesis, pericyclic reactions, photo chemistry and protecting groups) and Inorganic Chemistry (Solid-state, Co-ordination chemistry and organometallics).</p>