

Name:- Ms. Ujwala N. Patil

**Personal Details:-**

<b>Name</b>	<b>PATIL</b>	<b>UJWALA</b>	<b>NILKANTH</b>
	<i>SURNAME</i>	<i>FIRST NAME</i>	<i>MIDDLE NAME</i>
<b>Department</b>	<b>Chemistry</b>		
<b>Designation</b>	<b>Assistant Professor</b>		
<b>Qualification(s)</b>	<b>M.Sc. M.Phil</b>		
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**Member Of:-**

<b>College Committees</b>	<b>Other Committees</b>
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**Research Done:**

Theoretical investigation on MESP and MED topography in high energy molecules: Azacubane, Nitrocubanes and Nitroazacubanes as Model System
Solvation structures of Na <sup>+</sup> Cl <sup>-</sup> ion pair in binary mixtures and Molecular interactions in choline acetate ion pair.

**Area of Interest in Research:**

<b>Computational Chemistry: Molecular dynamics</b>
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## Books Published:

Name of Book	Author(s)	ISBN No.	Year	Edition	Publisher
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## Research publications:

Thermodynamics of Na <sup>+</sup> Cl <sup>-</sup> ion – pair association in acetonitrile–dimethyl sulfoxide mixtures <b>U. N. Patil</b> , S. Keshri, B.L. Tembe, <i>Chem. Phys. Lett.</i> <b>2015</b> , 620, 134-138.
Solvation structure of sodium chloride (Na <sup>+</sup> –Cl <sup>-</sup> ) ion pair in dimethyl sulfoxide–acetonitrile mixtures <b>U. N. Patil</b> , S. Keshri, B.L. Tembe, <i>J. Mol. Liquids</i> <b>2015</b> , 207, 279-285.
Molecular electrostatic potentials and electron densities in nitroazacubane N. R. Dhmal, <b>U.N. Patil</b> and S. P. Gejji, <i>J. Chem. Phys.</i> <b>2004</b> , 120, 749.
Theoretical studies on the molecular electron densities and electrostatic potentials in azacubane. <b>U.N. Patil</b> , N. R. Dhmal, S. P. Gejji, <i>Theor. Chem. Acc.</i> <b>2004</b> 112, 27-32.
Molecular electrostatic potentials and electron densities in nitrocubanes C <sub>8</sub> H <sub>8-<math>\alpha</math>(NO<sub>2</sub>)<math>\alpha</math></sub> ( $\alpha=1-8$ ): ab initio and density functional study. <b>U.N. Patil</b> , N. R. Dhmal, S. P. Gejji, <i>J. Mol. Stru.</i> <b>2004</b> , 718, 117-127.

## Seminars and Workshops Attended:-

Presented Poster in National conference in Theoretical chemistry in <b>December 14</b> .
Presented Poster in 16 <sup>th</sup> CRSI symposium in chemistry (National) in <b>January 14</b> .
Participated in workshop in Metals in Health and Disease in <b>January 13</b> .
Participated in state level workshop of micro scale Technique in Physical Chemistry in <b>January 12</b> .

## Seminars and Workshops Organized:-

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**Other Accomplishments:-**

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