



## Dr. Dharitri Moharatha, Ph.D.

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**Designation:** Sr. Asst.Professor

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(JOINED THE INSTITUTE IN 2011)

### RESEARCH INTERESTS

Liquid Physics (Experimental):

PHYSICO-CHEMICAL PROPERTIES OF SOME SIMPLE AND MULTICHARGED ELECTROLYTES IN AQUEOUS SOLUTIONS OF DEXTRAN AND CHITOSAN”

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### Academic Qualifications:

Ph. D. (Physics), Utkal University, India

M. Phil. (Physics) Utkal University, India

M. Sc. (Physics), Ravenshaw College Utkal University, India

Specialisation: Electronics.

### Teaching Experience:

**21 years in teaching** Engineering Physics, Applied Physics, Modern Physics, Semiconductor devices, Electronics Devices

### Industrial Experience: Nil

### Research Experience:

**7 years** in the field of Liquid Physics

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## PUBLICATIONS

### JOURNAL:

1. Acoustic and Viscosity studies of alkali metals and ammonium halides in

aqueous dextran solutions at four different temperatures

***Indian Journal of Pure & Applied Physics, Vol. 48, Sept.2010, pp. 651-657***

2. Evaluation of Acoustic Parameters of Halides of Alkali Metals and Ammonium in Aqueous and Aqueous Dextran Solution at 298.15K

***Researcher, Vol.2, March 2011, pp. 6-12***

3. Ion association and solvent interaction-conductance of alkali metals and ammonium halides in aqueous binary mixtures containing dextran at different temperatures

***Physics and Chemistry of Liquids, 49: 4,July-Aug 2011, 421-429,***

4. Acoustic and ultrasonic studies of alkali metals and ammonium halides in chitosan solutions at four different temperatures

***Indian Journal of pure & Applied Physics, Vol. 51, March 2013, pp.202-206***

5. Acoustical and Thermodynamical Properties of Potassium ferricyanide and Potassium ferrocyanide in chitosan solutions at 298.15K

***International Journal Pharma and Bio Sciences, 4(4),Oct 2013,(P) 437-444***

6. Viscometric and Thermodynamic studies of interaction in ternary solutions containing Chitosan and Potassium ferricyanide and Potassium ferrocyanide at four different temperatures.

***Advanced Science letters, Vol.20(3-4), March 2014, pp.744-747(4)***

***(Publisher- American Scientific Publishers)***

7. Ion association and solvent interaction-conductance of alkali halides in chitosan solutions at four different temperatures.

***International Journal of Research in Engineering and Applied Sciences(IJREAS) Vol. 6 Issue 12, December - 2016, pp. 93~102***

### Journal reviews:

- ***Journal of Pure & Applied Ultrasonics***