

## ***Curriculum Vitae***



Miss. Jyotsna Tripathy  
C/o Prof Manish Bhattacharjee  
Department of Chemistry  
IIT Kharagpur, Kharagpur  
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Born. 28<sup>th</sup> August ,1982  
Female, Married, Indian

Ph.D. Student (January 2006 – January 2012)

**Thesis Title:** Cationic ruthenium complex catalyzed carbon-carbon and carbon-oxygen bond formation

**Research Supervisor:** Prof Manish Bhattacharjee  
Department of Chemistry  
IIT Kharagpur, Kharagpur

### **Educational Qualification:**

Degrees	Year of Passing	Board/ University (school/college)	Subjects	Percentage of marks
PhD	2012	Indian Institute of Technology, Kharagpur, India	Studies on Ruthenium Catalyzed C–O & C–C Bond Formation	
M. Sc.	2004	Ravenshaw College, Utkal University, Orissa, India	Chemistry (Organic chemistry specialization)	69.4% (1 <sup>st</sup> division)
B.Sc	2002	North Orissa University, India	Chemistry (Hons), Physics, Mathematics, English	65.1% (1 <sup>st</sup> division)
High Secondary	1999	Council of Higher Secondary Education Orissa, India	Chemistry, Physic, Mathematics, Biology	66.8% (1 <sup>st</sup> division)

### **Achievements / Scholarship:**

- Graduates Aptitude Test in Engineering (Gate2005), Ministry of Human Resource Development, Government of India, held on February-2005.
- Awarded the Junior Research Fellowship by IIT Kharagpur ( Jan 2006)
- Senior Research Fellow (IIT Kharagpur, 6 Jan 2008- till date)
- R. K. Nanda award for the first rank in the postgraduate seminar.
- Convener in 1<sup>st</sup> research scholar symposium organized by scholars of IIT Kharagpur
- Lifetime membership in Chemical Research Society of India.

### **Organizational Involvement & Other skills:**

- Extensive experience in design, synthesis of organometallic compounds, and identification of organic compounds.
- Good organization and managerial skills. Assisted three M.Sc. Student in their project work.
- 5 year experience in taking tutorial and organic practical classes for the undergraduate students of IIT –Kharagpur parallel to the Ph.D. research
- Proficient in the experimental methodology and interpretation of data from techniques such as UV-VIS, FTIR, NMR and Mass spectroscopy.
- Hands on experience in BRUKER-AC 200 MHz NMR spectrometer
- Represented as a convener in research scholar symposium

### **Computer Skills:**

Computer literate with several latest chemical drawing software, MS OFFICE, ORIGIN etc.

### **Teaching Experience:**

General Inorganic classes (tutorial & laboratory) for undergraduate students were taken during the Ph.D. Program at IIT Kharagpur (**six semesters**)

### **Course Works during Ph.D.**

Newer Methods of Synthesis, Drug Design and Development, Applications of Metal-complexes in Catalysis and Material Science, Supramolecular Chemistry and **German Language**

### **Publications in referred journals/Proceedings:**

1. Control over C-O and C-C bond formation: rutheniumcatalyzed regiospecific addition of carboxylic acid to alkyne and stereoselective dimerization of alkyne *Tetrahedron letter*. **2009**, 5, 4863-4865.
2. Ruthenium -Catalyzed Addition of Active Methylene Compounds to 1-Alkynes (under review).
3. Regiocontrolled Ru-catalyzed addition of carboxylic acids to alkynes (Full paper, under review)

### **Poster presented at conferences:**

1. Sixth one day national symposium in chemistry, Department of Chemistry, Indian Institute of Technology, Kharagpur, November 8, 2008
2. 11<sup>th</sup> CRSI National Symposium in Chemistry, National Chemical Laboratory, Pune, 6-8 February 2009.
3. 13<sup>th</sup> CRSI National Symposium in Chemistry, NISER, Bhubaneswar, 4-6 February 2011.

### **Declaration**

I hereby declare that all the information furnished above is true to the best of my knowledge.

I am ready to produce my original certificates and documents whenever required.

Jyotsna Tripathy

PhD, IIT Kharagpur, India