

Dr. ABHIJIT NATH

Department of Physics
Government Degree College,
Kamalpur
P.O- Kamalpur, Dhalai, Tripura,
India, PIN-799285

E-mail: drctuo@gmail.com

Phone: +91-8730985652

EDUCATION

Ph.D in Physics 2015:

Obtained my Ph. D degree from TRIPURA UNIVERSITY in the year 2015 on the topics "QUANTUM MECHANICAL STUDIES OF THE ELECTRONIC STATES AND SPECTROSCOPIC PROPERTIES OF SOME VIA INTRA GROUP HETERONUCLEAR DIATOMIC MOLECULES"

M.Phil in Physics 2008:

Obtained my M. Phil degree from Vinayaka Missions University in the year 2008 on the topics "FORMATION OF NANOSCALE METALLIC STRUCTURES ON COPPER NITRIDE THIN FLIM SURFACE BY THE IMPACT OF SWIFT HEAVY IONS"

B.Ed in 2002

Obtained my B. Ed degree from TRIPURA UNIVERSITY in the year 2002 with 62% marks.

M.Sc in Physics 2001

Obtained the **M.Sc Physics** degree from TRIPURA UNIVERSITY with specialization in **Electronics** with **64.7% marks** and stood **Second** in the batch

B.Sc Hons in Physics 1997

Obtained the **B.Sc Physics** degree from Maharaja Bir Bikram College under TRIPURA UNIVERSITY with **52% marks**.

Higher Secondary (+2 Stage) 1994

Passed H.S Exam from Tripura Board of Secondary Education in **First Division** with **73.1% Marks**

Madhyamik Pariksha (Secondary Exam.) 1992

Passed H.S Exam from Tripura Board of Secondary Education in **First Division** with **72% Marks**

WORK EXPERIENCE

1. Now I am working as a PGT in Government Degree College, Kamalpur from July 2010 to till Date.
2. I was worked as PTCT in M.B.B college, Agartala from 2008 to 2010.
3. I was worked as PTCT in Eswarchandra Mahavidyalaya, Belonia from 2002 to 2008.
4. Teaching of B.Sc Pass Physics Theory and Practical course of Tripura University (A Central University).

RESEARCH EXPERIENCE

6 years in the field of **Theoretical Physics** in **Department of Physics, Tripura University** under Dr. S. Chattopadhyaya, AssociateProfessor.

PUBLICATION

1. “Theoretical studies of the electronic spectrum of tellurium monoxide including spin-orbit coupling and other relativistic effects”

Surya Chattopadhyaya, **Abhijit Nath**, Kalyan Kumar Das

Paper based on this work is under preparation.

2. “Effects of spin-orbit coupling on the electronic states and spectroscopic properties of selenium monosulfide molecule”

Surya Chattopadhyaya, **Abhijit Nath**, Kalyan Kumar Das

Communicated to Journal of Molecular Spectroscopy (ELSEVIER), 2015.

3. “Theoretical investigation of electronic states and spectroscopic properties of tellurium selenide molecule employing relativistic effective core potentials”

Surya Chattopadhyaya, **Abhijit Nath**, Kalyan Kumar Das

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (ELSEVIER)
124 (2014) 618-628.

4 “Theoretical studies of the electronic spectrum of tellurium monosulfide”

Surya Chattopadhyaya, **Abhijit Nath**, Kalyan Kumar Das

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (ELSEVIER)
112 (2013) 283-289.

5. “Electronic states of selenium monosulfide- a theoretical study”

Abhijit Nath, Surya Chattopadhyaya

Published in the Proceedings of the Conference on Recent Trends of Research in Physics (CRTRP)-2012, acb publications (ISBN 978-81-904362-9-8), Kolkata, India, (2013) 124-130.

6. “Configuration interaction study of the electronic states and spectroscopic properties of selenium monoxide”

Surya Chattopadhyaya, **Abhijit Nath**, Kalyan Kumar Das

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (ELSEVIER)
89 (2012) 160-167.

SEMINAR ATTENDED

1. VI National Conference of the Physics Academy of North East – 2009 (PANE2009). 2 – 4th April, 2009. Organized by Department of Physics, Tripura University, Suryamaninagar.

2. Three Day School on Foundations of Plasma Physics and Technology for Young Researchers of North East India. 30th October – 1st November, 2009. Organized by Thermal Plasma Processed Materials Laboratory, Department of Physics, Dibrugarh University, Dibrugarh and Power Beam Society of India.
3. National Seminar on Condensed Matter Physics (SCMP-2010). 16th February, 2010. Organized by Department of Physics, Tripura University, Suryamaninagar.
4. IUAC Acquaintance Program on October 03, 2010. Organized by Department of Physics, Tripura University, Suryamaninagar and Inter University Accelerator Centre (IUAC), New Delhi.
5. National Conference on Recent Trends of Research in Physics & Departmental Reunion – 2012 (CRTRP2012). 3 – 4th February, 2012. Organized by Department of Physics, Tripura University, Suryamaninagar.
6. International conference on material science (ICMS-2013) held at Department of Physics Tripura University during February 21-23, 2013.