

**Name:** Dr. Gobinda Pradhan

**Designation:** Assistant Professor

**Branch:** Physics

**Educational Qualification(s):**



Qualification(s)	University
B.Sc(H)(Physics)	Mahishadal Raj College (Vidyasagar University)
M.Sc.(Physics)	Vidyasagar university
Ph.D (Physics)	IIT Guwahati

**Experience in years:**

Academic: 9 months

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	ICFAI University Tripura	Assistant Professor	27.08.2021	17.05.2022

**Other Information:**

(a)Publication details:

### **Journal publications**

1. **G. Pradhan**, P.P. Dey, AlikeKhare and A.K. Sharma, *Synthesis and size modulation of MoS<sub>2</sub> quantum dots by pulsed laser ablation in liquid for viable hydrogen generation*, Journal of Applied Physics, 129 (2021) 1-9.
2. **G. Pradhan**, P.P. Dey, A.K. Sharma, *Surface evolution and scaling properties of pulsed laser deposited WS<sub>2</sub> thin films on different substrates*, Applied Physics A, 475 (2020) 1-7.
3. **G. Pradhan**, A.K. Sharma, *Linear and non-linear optical response of sulfur deficient nanocrystallite WS<sub>2</sub> thin films*, Journal of Materials Science, 54(2019), 14809-14824.
4. **G. Pradhan**, P.P. Dey, A.K. Sharma, *Anomalous kinetic roughening in growth of MoS<sub>2</sub> films under pulsed laser deposition*, RSC Advances, 9 (2019) 12895–12905.

5. **G. Pradhan**, A.K. Sharma, *Temperature-controlled 1T/2H phase ratio modulation in mono- and a few layered MoS<sub>2</sub> films*, Applied Surface Science, 479 (2019) 1236–1245.
6. **G. Pradhan**, A.K. Sharma, *Anomalous Raman and photoluminescence blue shift of a few layered pulsed laser deposited MoS<sub>2</sub> films*, Materials Research Bulletin, 102 (2018) 406–411.

### **Conference Proceeding**

1. **G. Pradhan**, R. Kesarwani, A. Khare and A. K. Sharma, *Thickness dependent optical properties of MoS<sub>2</sub> thin films probed by spectroscopic ellipsometry*. Optical Society of America, P1A.14 (2016).

### **Book Article**

1. **G. Pradhan**, P. P. Dey and A. K. Sharma, '*MoS<sub>2</sub> Quantum Dots Synthesis and Their Size Modulation by Pulsed Laser Ablation in Liquid*' in "Advances in Science and Technology", Volume II, 2020, McGraw-Hill, ISBN-13: 978-93-90491-11-7.

(b) Details of Seminar/Workshop/Conference:

### **Conference attended**

1. Rahul Kesarwani, **Gobinda Pradhan**, Sasmita Behera, Ashwini K Sharma and Alike Khare, "*Surface morphology and optical properties study of thin films grown by PLD.*" Research conclave (2016), IIT Guwahati. (Poster presentation)
2. **Gobinda Pradhan** and Ashwini K Sharma, "*Optical properties of bilayer MoS<sub>2</sub> film deposited by PLD technique.*" ICLLT-2016, Tezpur University. (Poster presentation)
3. **Gobinda Pradhan**, Rahul Kesarwani, Alike Khare and Ashwini K Sharma, "*Thickness dependent optical properties of MoS<sub>2</sub> thin films probed by spectroscopic ellipsometry.*" Photonics -2016, IIT Kanpur. (Poster presentation)
4. **Gobinda Pradhan**, Sasmita Behera, Rahul Kesarwani, Alike Khare and Ashwini K Sharma, "*Precisely controlled a few Layered MoS<sub>2</sub> Films Grown by Pulsed Laser Deposition.*" Research conclave (2017), IIT Guwahati. (Poster presentation)
5. **Gobinda Pradhan** and Ashwini K Sharma, "*2D Layered MoS<sub>2</sub> Films Growth Using PLD Technique*", ICNANO-2017, Allahabad, India. (Poster presentation)
6. **Gobinda Pradhan** and Ashwini K Sharma, "*Temperature controlled nucleation and growth of a few layered MoS<sub>2</sub> films*", ICTF-2017, Delhi, India. (Poster presentation)

7. **Gobinda Pradhan** and Ashwini K Sharma, “MoS<sub>2</sub> quantum dots shape and size modulation by pulsed laser ablation in liquid.” Research conclave (2019), IIT Guwahati. (Oral presentation)

8. **Gobinda Pradhan**, Parth P Dey and Ashwini K Sharma, “*MoS<sub>2</sub> quantum dots synthesis and their size modulation by pulsed laser ablation in liquid*”, NCRAS-2019, Guwahati, India. (Poster presentation)

9. **Gobinda Pradhan** and Ashwini K Sharma, “*Shape and Size Modulation of MoS<sub>2</sub> Quantum Dots Synthesis by Pulsed Laser Ablation in Distilled Water*”, ICMAT-2019, Singapore. (Oral presentation)

### **Workshops attended**

1. “National workshop on Advanced Probing Techniques in TEM”, APTTEM-2016, IIT Guwahati, India.
2. “One-Day Workshop on Vacuum Technology and its Applications in Optical Science”, IIT Guwahati, India on August 19th, 2017.

c) Professional membership of reputed bodies if any:- Nill