

Dr Lokanath Mishra



Designation: Lecturer

Department: Physics

Date of Birth: 31/05/1981

Email.ID: lokanath17@gmail.com

Qualification: NET(CSIR), PhD (IIT Kharagpur, 2015)

Area of specialization: Optoelectronics and Semiconductor Devices

Teaching Experience: 9 years

Sl. No	Name of the Institute	Position Held	Period (From-To)
1	Ganajm College, Ganjam	Lecturer	27.07.2017- Till date
2	High Learning Center CIPET, BBSR	Lecturer	10.08.2015-16.07.2017

Details of Course Currently Teaching:

1. Analog Electronics
2. Digital Electronics
3. Solid State Physics
4. Statistical Mechanics
5. Generic Electives Physics I and II

Mode of Appointment in the current Position: SSB 2016

Date of joining the current Institution: 04.06.2019

Date of joining in the current service: 27.07.2017

Fellowships: MHRD-GATE (2007-2012), Indo-Italian Research Fellowship (2009-10).

Professional Membership: Indian Laser Association (ILA)

Journal Publications (International)

1. R Pradhan, A Choudhary, S. K Samanta, **L Mishra**, S. Jana and P K Datta, “ Modeling of all-optical Modulation Format Conversion from Amplitude-shift keying to phase-shift keying using a vertical cavity quantum wells absorber,” *JOSA B*, Vol. 37, No. 12 (2020), 3754-3762. *SCI Journal, Impact Factor: 1.8* ISSN: 0740-3224
- 2.
3. **L Mishra**, “Optically controlled reflective bistability in a Vertical Cavity Semiconductor Saturable absorber,” *Optics Communication*, Vol. 342 (2015), 136 – 140. *SCI Journal, Impact Factor: 2.33* ISSN: 0030-4018
4. **L Mishra**, R Pradhan, and P K Datta, “Modeling of Wavelength Conversion using Switching Bistability in a Vertical Cavity Semiconductor Saturable Absorber,” *IJEEE*, vol. 3, no. 5, pp. 396-401 (2015) ISSN:2301-380X
5. **L Mishra**, R Pradhan, and P K Datta, “Modeling of Two-wavelength Switching using a Reflective Vertical Cavity Semiconductor Saturable Absorber,” *Optics Communication*, Vol. 331 (2014), 267 – 271. *SCI Journal, Impact Factor: 2.33* ISSN: 0030-4018
6. R Pradhan, **L Mishra**, K Hussain, S Saha, and P K Datta, “All-Optical 2R Regeneration with Contrast Enhancement in a Reflective Vertical Cavity Quantum-Wells Saturable Absorber,” *J.Opt. Commun. Netw*, vol. 5, no. 5, MAY 2013. *SCI Journal, Impact Factor: 3.0* ISSN:1943-0639
7. **L Mishra**, A Nguyen, C Porzi, P K. Datta, L Poti, A Bogoni, “Phase-response characterization of semiconductor saturable absorber for applications in nonlinear optical signal processing and phase-modulated signals regeneration”, *Proc. Of SPIE*, Vol.7934, 7934E (2011). *Impact Factor: 0.86* ISSN:1996-756X
8. P K Datta, R Pradhan, **L Mishra**, and S Saha, “Effect of Saturable Index Change on All-Optical Logic Operations in Vertical Cavity Semiconductor Saturable Absorption Mirror”, *IET Optoelectronics*, vol.5, no. 2, pp. 77–82, (2011). *SCI Journal, Impact Factor: 1.6* ISSN:1751-8776

9. A Ray, S K. Das, **L Mishra**, P K. Datta, and S M. Saltiel; “Nonlinearly coupled, gain-switched Nd:YAG second harmonic laser with variable pulse width”; *Applied Optics*, vol. 48, no. 4, pp. 765-769 (2009) *SCI Journal, Imapct Factor: 1.97* ISSN:2155-3165
10. R. Pradhan, A. Choudhary, S. K. Samanta, **L. Mishra**, S. Jana, and P. K. Datta, “Modeling of all-optical modulation format conversion from amplitude-shift keying to phase-shift keying using a vertical cavity quantum wells absorber”, *Journal of the Optical Society of America B*, Vol. 37, No. 12, November 2020, *ISSN 0740-3224. Imapct Factor: 2.05*

Conference Publications

1. **L. Mishra** and P. K. Datta, "All-Optical Level Regeneration Using Two Cascaded Semiconductor Saturable Absorber," in *12th International Conference on Fiber Optics and Photonics*, **OSA Technical Digest** (online) (Optical Society of America, 2014), paper M4A.67. ISBN: 978-1-55752-882-7
2. **L Mishra**, and P K Datta, “All-Optical Regeneration of Phase Modulated Signal Using a Vertical Cavity Semiconductor Saturable Absorber,” *5th International Conference on Computers and Devices for Communication (CODEC)*, 2012. **IEEE Xplore Digital Library**(online) ISBN: 978-1-4673-2619-3
3. **L Mishra**, P K Datta, “Simultaneous dual wavelength conversion by using a vertical cavity semiconductor saturable absorber”, *International conference on theoretical and applied Physics (ICTAP)*, December 1-2, 2011.

Workshop:

1. QIP Short term course cum workshop on Industrial application of Terahertz Radiation, 27th March-02 April 2017 at IIT Kharagpur.

Orientation Course Attended:

1. UGC sponsored orientation programme by HRDC-Utkal University from 12th Feb-3rd Mar, 2020.

Refresher Course attended:

1. UGC-STRIDE Refresher Course on “Research Methodology: Research Ethics, Methods, Skills, Writing and Communication” held from 19th Aug- 01 Sept, 2020.

2. Online Refresher Course in Physics organised by the Department of Physics, Savitribai Phule University, Pune under UGC_HRDC Pune in collaboration with DHE, Odisha from 12th Nov-25th Nov, 2021.

Additional responsibilities held within the organization:

1. Officer In-Charge SAMS
 2. Admission In-Charge (Degree)
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