

Name of the Faculty : Dr. Vijay Deshmukh

Position : Asstt Professor in Applied Physics, Dept of First Year Engineering

International Journals

1. K. H. Kim, S. H. Lee, and V. M. Deshmukh, "Dynamics of 1.55 μm wavelength single-mode vertical-cavity surface-emitting laser output under external optical injection," *Adv.Opt. Technol.* (2012), art. no. 247070
2. Deshmukh, V.M., Lee, S.H., Kim, D.W., Kim, K.H., Lee, M.H.," Experimental and numerical analysis on temporal dynamics of polarization switching in an injection-locked 1.55- μm wavelength VCSEL" (2011) *Optics Express*, 19 (18), pp. 16934-16949.
3. Lee, S.H., Kim, K.H., Deshmukh, V.M., Kim, D.W., Lee, M.-H.," Injection laser wavelength-dependent timing jitter reduction of gain-switched single-mode VCSELS", *IEEE Journal of Quantum Electronics*, 46 (9), (2010) pp. 1327-1331.

National Journals

- Nil -

International Conferences

1. Jung, H.W., Lee, S.H., Kim, K.H., Kim, D.W., Deshmukh, V.M., Lee, M.H. "Low jittered optical pulse generation from a gain-switched single-mode VCSEL with an external laser beam injection" *Digest of the 9th International Conference on Optical Internet, COIN 2010*, art. no. 5546558

National Conference

1. Vijay Manohar Deshmukh, Seoung Hun Lee, Min Hee Lee, Dong Wook Kim, Kyong Hon Kim, "Time dependent polarization properties of Injection locked 1.55 μm VCSEL", *The optical Society of Korea 20th Anniversary Special Meeting, 2009.WP-V14*
2. Vijay Manohar Deshmukh, Seoung Hun Lee, Min Hee Lee, Dong Wook Kim, Kyong Hon Kim," Analysis on temporal dynamics of polarization switching in an injection-locked 1550nm wavelength VCSEL", *Photonics Conference 2011/TP-V10*.
3. Lee, S.H., Jung, H.W., Kim, K.H., Kim, D.W., Deshmukh, V.M., Lee, M.H., "High-speed all-optical flip-flop operation with cylindrical shaped single-mode VCSELS", *The Optical Society of Korea Summer Meeting 2010*, paper FP-V20.