Yogendra Kumar Prajapati

Curriculum Vitae

Department of Electronics and Communication
Bundelkhand Institute of Engineering and Technology (BIET), Kanpur Road
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Degree

- Ph.D. Electronics Engineering, Gautam Buddha Technical University, Lucknow (formerly U.P.T.U, Lucknow), 2010, advised by Dr. Vivek Singh, BHU, Varanasi and Dr. J.P. Saini, BIET, Jhansi.

Employment

- Assistant Professor, Electronics and Communication, BIET, Dec. 2007–present
- Lecturer, Electronics and Communication, VCE, Bijnor, U.P, September 2003–June 2007
- Lecturer, Electronics and Communication, BBDIET&RC, Bulandshahr, August 2002–September 2003.

Honors and fellowship

- Travel Grant receives from Department of Science and Technology (DST), India, June-2010 for PIER (MIT), USA visit.
- Teacher fellowship receive from U. P. Technical University, Lucknow ,India, during 07 July 2007 to 16 December 2007

Professional Training and Research Experience

- Workshop on Distributed control system (DCS) Simulator with dynamic simulation models, during October 15-16, 2005 at BIET, Jhansi (U.P).
- Programme on Pedagogical Training in Engineering Education, during November 03-15, 2008 at Engineering Staff College of India, Hyderabad (A.P).
- QIP short term course on Optical Communication Networks, during June22-July 03, 2009 at ECE department, IIT, Kharagpur (W.B)

Research interests

My current research interests include unconventional optical fiber/ photonics waveguides for development of photonic applications, nonlinear optics, opto-electronics. I am also interested in designing and developing novel, polymer waveguides, optical switches, signal regenerative filters, fibers/ photonics waveguides and waveguide sensors, Meta material waveguides using computational technique.

B.Tech / M.Tech Students Supervised

- More than thirty students.

Ph.D. Students Supervised

- One Student (1th year) in progress.

Membership and Reviewer

- International Association of computer Science and Information technology (IACSIT), Singapore.
- International journal of Engineering, Science and Technology.

Journal and Refereed-Conference Publications

- "Modal characteristic equation and dispersion relation for an elliptical Bragg waveguide with a small number of claddings" Y. Prajapati, Vivek Singh and J. P. Saini, Journal of Mirowave and optical Technology Letters (Accepted).

- "Modal Analysis of a Super Elliptical Bragg Waveguide With a Small Number of Periodic Cladding Layers Based on a Very Simple Analytical Technology," Y. Prajapati, Vivek Singh and J. P. Saini, International Journal for Light and Electron Optics (OPTIK), volume-120,issue-1,pp.14-19 (2009),Elsevier Publication Germany.

- "Modal Analysis and Dispersion Curves of a New Unconventional Bragg Waveguide Using a Very Simple Method," Vivek Singh, Y. Prajapati and J. P. Saini, International Journal of Progress In Electromagnetics Research, U.S.A., ISSN: 1559-8985, E-ISSN: 1070-4698, vol. 64, pp. 191–204,2006.

- "Modal Analysis and Dispersion Curves of a Bragg Fiber Having Asymmetric loop boundary" Y. Prajapati Vivek Singh, and J. P. Saini, International Journal of Progress In Electromagnetics Research, U.S.A., ISSN: 1559-8985, E-ISSN: 1070-4698, vol. 87, pp. 117–130,2008.

- "Modal Analysis and Dispersion Curves of Unconventional Bragg Waveguide" Y.Prajapati, Vivek Singh and J. P. Saini, International journal of Telecommunications, U.K, ISSN: 2042-8839, volume-5, issue-1, pp. 22-25 (2010).

- "Modal characteristics of optical Bragg waveguide with alternating cladding layers" Y. Prajapati, Vivek Singh and J. P. Saini, Recent trends in Electronics & communication ,pp. 281–284, Tangori (Mohali), 10-11April- 2008,Punjab.

- “LP mode field intensity of optical waveguide with different closed loop cross section boundaries” Y. Prajapati, Vivek Singh and J. P. Saini, Optical and wireless communication, (DAVIET,Jalandhar) 27-28 November- 2008,Punjab.

- “Analysis of elliptical optical waveguide by Galerkin methods” Y. Prajapati, Vivek Singh and J. P. Saini, International conference on Signals, Systems and Communication (ICSSC),CEG Campus, Anna University, Channai,21-23 Dec.2009.
- “Modal dispersion of 1-D photonic waveguide” Alka verma, Y. Prajapati, Vivek Singh and J. P. Saini, National conference on Electronics, Computers and Communication (NCECC-2010), Gwalior, 06-07 march 2010.

- “Optical antenna for optical wireless communication” Dharamdas kumar, Alka verma, Y. Prajapati and J. P. Saini, National conference on Electronics, Computers and Communication (NCECC-2010), Gwalior, 06-07 march 2010.

- “Modal Dispersion Characteristics of Different cross sectional Optical Waveguide” by Y.K.Prajapati, Vivek Singh, J.P. Saini and Alka Verma, International Conference PIER 2010,Cambridge (U.S.A), July 5-8,2010.