

Curriculum Vitae

Yogendra Kumar Prajapati

B.E., M. Tech. (Research), Ph.D.

Present Affiliation: Assistant Professor,
Department of Electronics and Communication
Engineering,
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Objective: A position that will capitalize on acquired expertise and experience with career growth potential. Exceptionally well organized, strong work ethics and willingness to work hard to achieve employer objectives.

Area of Specialization:

- Theoretical and numerical characterization of optical communication devices
- Design, fabrication, and characterization of Optical sensors
- High speed optical communication

Patent

- **Title:** Method to determine beam width of a dip in surface plasmon resonance sensor and its application
Application No.:201611005417A, Date of filing of Application: 16/02/2016,
Publication Date: 03/06/2016, Issue no. 23/2016
- **Title:** Integrated health-monitoring device and a method of real time transfer of health condition data collected
Application No.: 201611025089 A, Date of filing of Application: 22 July 2016
Publication Date: 30/12/2016, Issue no. 54/2016

Grant/Funded Research Projects

- “Design and Study of Sensitivity of optical biosensors having Metamaterials” (Project Ref.No.SB/FTP/ETA-0478/2012) funded by Science and Engineering Research Board, Department of Science & Technology, New Delhi, India under Start-Up Research Grant (Young Scientists),Rs. 23.39 Lakh (Ongoing)
- “Design an optical sensor using graphene/MoS₂ for biomedical application” Project (Ref.No.15/R&C/2016-16 dated on 13/04/2016) funded by Motilal Nehru National

Institute of Technology (MNNIT), Allahabad, India under Design and innovation centre (DIC) of the Institute. Rs.0.50 Lakh (Ongoing)

- “Design of biosensors using metal clad for sensing application” Project (Ref.No.146/R&C/13-14 dated on 02/09/2013) funded by Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India under TEQIP-II of the Institute for faculty, Rs.3.00 Lakh (completed)
- “Simulation and numerical analysis of optical microstructure fibers: Dispersion characteristic” Project (Ref.No.134/R&C/13-14 dated on 23/08/2013&Ref. No. 360/R & C/13-14, dated 07/03/2014) funded by Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India under plan grant of the Institute for new faculty. Rs.2.00 Lakh (Completed)

DST FIST sponsored Optical Communication Lab

- DST-FIST-2016 project proposal (Ref. No. SR/FST/ETI-418/2016) for Electronics and Communication Engineering Department, MNNIT Allahabad, Rs. 1.15 crore (Prepared & presented)

Consultancy:

- Veekay Connectors(P) Ltd., Naini, Allahabad for Confirmatory tests of fiber optical splitter with microlens chip (As a member)

MOU:

- MOU signed with Veekay Connectors(P) Ltd., Naini, Allahabad

Teaching Experience: 14 Years

- Theory Courses Taught: UG/PG level
- P.G. Theses Supervised: 12
- Ph.D. Theses Awarded: **01**(Regular) + **02** (Part-Time)

Mr. Anurag Upadhyay (2013REL01)

Title: Analysis of Optical Waveguide Sensors having Metamaterial for Refractometric and Immunosensing Applications

Mrs. Pooja Lohia (Ph.D/13/ECE/1136)

Title: Single Mode Optical Fiber Design for High-Speed Optical Communication using Transfer Matrix Technique

Mrs. Sarika Pal (Ph.D/11/ECE/1075)

Title: To Study the Sensitivity of Optical Sensors in Layered Media using Unconventional Materials

- Ph.D. Thesis in progress: **04**(Regular) +**02** (Part-Time)

Work Experience:

S. No.	Period		Position Held	Organization	Nature of work
	From	To			
1.	23-10-2012	Continue	Assistant professor	MNNIT, Allahabad	Teaching and Research
2.	25-05-2016	07-06-2016	As a Visiting Scientist	Multimedia University, Malaysia	Research
3.	17-12-2007	22-10-2012	Assistant professor	BIET, Jhansi, (U.P. Govt. Institute)	Teaching and Research
4.	07-07-2007	16-07-2007	As a Lecturer in Teacher fellow scheme GBTU, Lucknow	BIET, Jhansi, (U.P. Govt. Institute)	Teaching and Research
5.	08 - 09-2003	30 -06-2007	Lecturer	VCE, Bijnor, (U.P)	Teaching and Research
6.	01-08-2002	7-09-2003	Lecturer	BBIET& RC, Bulandshahr	Teaching

Administrative Works:

S. No.	Designation	Period	Nature of Responsibility	Organization
1.	Technical member of Centre for Promoting Innovation (CPI)	22August, 2014 to continue	Promote for Innovative research	MNNIT, Allahabad
2.	Faculty in charge of Electrical maintenance (EMSW)	12 Sept.,2013 to 26 Dec.2015	To look after the Electrical maintenance of Institute	MNNIT, Allahabad
3.	Member of Institutional Research & Consultancy Committee	23 March 2013 to continue	Research & Consultancy Cell	MNNIT, Allahabad
4.	Hostel Warden	25, July 2012 to 22, Oct.2012	To look after the Hostel work of Institute	BIET, Jhansi
5.	Dy. O/C Examination	25 Sept.2012 to 22 Oct.2012	To look after the Examination related work of Institute	BIET, Jhansi
6.	Officer in charge of Electrical maintenance	02, July 2009 to 25, July 2012	To look after the Electrical maintenance	BIET, Jhansi

			of Institute	
7.	Student counselor	31, July 2010 22, Oct.2012	Academic and non-academic matters of department students	BIET, Jhansi
8.	Officer in charge of FEE Department	03, June 2008 22, Oct.2012	Organizing students activity	BIET, Jhansi

Honors and fellowship

- Young Scientist Research Grant, Sept. 2014, SERB NewDelhi
- Travel Grant receives from Department of Science and Technology (DST), New Delhi, India, 5-8 July 2010 for presenting PIER conference at MIT, USA.
- Teacher fellowship received from U. P. Technical University, Lucknow, India, during 07 July 2007 to 16 December 2007.

Professional Activity

- Member of Institute of Electrical and Electronics Engineers (IEEE Member Number: 92205868), USA.
- Member of Optical Society of America (Member Number: 1058070)
- Reviewer of International journal of Sensors & Actuators: B. Chemical, Elsevier publication.
- Reviewer of International journal of Silicon, Springer publication
- Reviewer of International journal of Optical Fiber Technology, Elsevier publication
- Reviewer of International journal of Optics Communications, Elsevier publication.
- Reviewer of International journal of Journal of Optics. IOP publication
- Reviewer of International journal of Optics Letters, Optical Society of America.
- Reviewer of International journal of Progress in Electromagnetic Research, USA.
- Reviewer of International journal of Infrared Physics & Technology, Elsevier publication.
- Reviewer of International journal of Physica Scripta, IOP.
- Reviewer of International journal of Engineering, Science and Technology, Nigeria.
- Member of International Association of computer Science and Information technology (IACSIT), Singapore

Workshops Attended

- Workshop on Distributed control system (DCS) Simulator with dynamic simulation models, during October 15-16, 2005 at BIET, Jhansi (U.P) India.
- Programme on Pedagogical Training in Engineering Education, during November 03-15, 2008 at Engineering Staff College of India, Hyderabad (A.P) India.
- QIP short term course on Optical Communication Networks, during June22-July 03, 2009 at ECE department, IIT, Kharagpur (W.B), India.
- Workshop on Recent Trends in Space Physics, Atmospheric Physics & Astrophysics, during March 12-17, 2012, BHU, Varanasi (U.P).
- ISTE Workshop on Signals and Systems conducted by IIT Kharagpur under the National Mission on education through ICT (MHRD, Govt. of India) during January 02-12, 2014.

Invited Lecture delivered

- Delivered an expert talk on “Introduction to Bragg waveguide” in the Faculty Development Program on Advanced in Microwave communication at B.I.E.T., Jhansi, during Dec.07-08, 2007.
- Delivered an expert talk on “Metamaterials and its application in Optical Networks & Sensors” in the National workshop on “Advances in Wireless and Optical Networks (AWON-2014)” during 2nd to 7th June-2014 at M.N.N.I.T Allahabad.
- Delivered an expert talk on “Metamaterials and its application in Optical devices” in the National workshop on “recent trends in Optical and Wireless Networks” during 3rd to 7th November 2014 at Sam Higginbottom Institute of Agriculture, Technology & Sciences, Naini, Allahabad.
- Delivered an expert talk on “Innovative photonic for communication and sensing application” in the 6th International Conference on “Technology Innovation & Management for Sustainable Development (TiMS-16) during 11-13 February 2016 at ITM University, Gwalior, M.P.

Short-Term Courses/National Workshop/Conference organized

- As a Co-coordinator organized “National workshop on Advances in Wireless and Optical Networks (AWON-2014)” during 2nd to 7th June-2014 at Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar Pradesh, India.
- As an organizing secretary organized *Students’ Conference on Engineering and Systems (SCES2014)*”, from May, 28-30, 2014, at Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar Pradesh, India.

- As a Co-coordinator organized “Mobile, Ad hoc and Vehicular Communication MAVECOM-2013” at MNNIT, Allahabad, during July 22-27, 2013.
- As a Coordinator organized “3G Wireless Networks, MIMO Systems and Antenna Design” at MNNIT, Allahabad, during July 08-13, 2013.
- As a convener organized “Techzion-12” at B.I.E.T., Jhansi, during 6-7, April 2012.

Research Publication:

Research Article:	SCI Journals	32 (Published/ Accepted)
	Non-SCI Journals	05 (Published)
	International Conference	18
	National Conference	05
	SCI Article under review	12

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Research Id: H-5222-2016

Published/Accepted SCI Research papers

1. Sajal Agarwal, Pushpa Giri, **Y. K. Prajapati**, P. Chakrabarti “Ti/Ag coated Thin Film Optical SPR Sensor for Sucrose detection: Fabrication, Experimental and Simulation Study,” *IEEE Sensors Journals*, doi: 10.1109/JSEN.2016.2615110, (**Impact factor: 1.889**).
2. Sajal Agarwal, **Y. K. Prajapati**, and Vivek Singh, “Influence of Metal Roughness on SPR Sensor Performance,” *Optics Communications*, 383(15), pp. 113–118, January 2017. (**Impact factor: 1.449**)
3. J. B.Maurya, **Y.K.Prajapati**, “Influence of Dielectric Coating of Metal Layer in Surface Plasmon Resonance Sensor,” *Journal of Plasmonics*, doi:10.1007/s11468-016-0366-3, 2016. (**Impact factor: 2.146**)
4. Sajal Agarwal, **Y. K. Prajapati**, J.B.Maurya: “Effect of Metallic Adhesion Layer Thickness on the Sensor Performance,” *IEEE Photonics Technology Letters*, 28(21), pp. 2415-2418, Nov. 2016. DOI: [10.1109/LPT.2016.2597856](https://doi.org/10.1109/LPT.2016.2597856) (**Impact factor: 1.945**)
5. J.B.Maurya, **Y.K.Prajapati**, and Rajeev Tripathi, “Effect of Molybdenum Disulfide Layer on Surface Plasmon Resonance Biosensor for the Detection of Bacteria,” First Online: 13 August 2016, DOI: 10.1007/s12633-016-9431-y, *Journal of Silicon*, Springer publication, (**Impact factor: 0.860**)
6. Sajal Agarwal, **Y.K.Prajapati** “Broadband and Polarization Insensitive Helix Metamaterial Absorber using Graphene for Terahertz Region,” *Applied Physics A.*, 122(6), 1-9, June 2016. (**Impact factor: 1.444**)

7. J.B.Maurya,**Y.K.Prajapati** “A Comparative Study of Different Metal and Prism in the Surface Plasmon Resonance Biosensor having MoS₂-Graphene,” *Optical and Quantum Electronics*, 48(5), pp. 1-12, May 2016. DOI: 10.1007/s11082-016-0562-6. (**Impact factor: 1.29**)
8. Anurag Upadhyay,**Y.K.Prajapati**, Rajeev Tripathi, Vivek Singh and J.P. Saini “Analysis of metal clad waveguide sensor having metamaterial as a guiding layer,” *Opto-Electronics Review*, Vol.24(2), pp. 47–57, April 2016. (**Impact factor: 1.667**)
9. Sarika Pal, **Y.K.Prajapati**, J.P.Saini and V. Singh, “Sensitivity enhancement of Metamaterial based Surface Plasmon Resonance Biosensor for near infrared,” *Journal of Optica Applicata*, vol. 46, issue 1, pp.131-143, Feb.2016.(**Impact factor: 0. 55**).
10. J.B.Maurya, **Y.K.Prajapati**, Vivek Singh, J. P. Saini, and Rajeev Tripathi “Improved Performance of the Surface Plasmon Resonance Biosensor Based on graphene or MoS₂ using Silicon,” *Journal of Optics Communications*, Vol. 359, pp. 426–434, January 2016. (**Impact factor: 1.449**)
11. Sajal Agarwal, **Y. K. Prajapati**, and Vivekanand Mishra, “Thinned Fiber Bragg Grating as a Fuel Adulteration Sensor: Simulation and Experimental,” *Journal of Opto-Electronics Review*, Vol. 23, issue 4, Pages 231–238, Dec. 2015. (**Impact factor: 1.667**)
12. Sajal Agarwal, **Y.K.Prajapati**, Vivek Singh, J. P. Saini, “Polarization Independent Broadband Metamaterial Absorber Based on Tapered Helical Structure,” *Optics Communications*, Volume 356, December 2015, Pages 565-570, ISSN 0030-4018, <http://dx.doi.org/10.1016/j.optcom.2015.08.055>. Elsevier Publication (**Impact factor: 1.449**)
13. Anurag Upadhyay, **Y.K.Prajapati**, Rajeev Tripathi, Vivek Singh and J.P. Saini, “Metal Clad Waveguide Sensor with Metamaterial Layer for Refractometric Sensing Application,” *J. Nanoelectron. Optoelectron.* 10, 749-754 Dec. (2015), American Scientific Publishers. (**Impact factor: 0.369**)
14. V.K.Srivastava, **Y.K.Prajapati**, Vivek Singh, J.P. Saini, “Enhancement of Effective Area of Bragg Waveguide using Plasma for Communication Systems” *International Journal of Microwave and Optical Technology Letters*, Wiley Publication, 57 (11), pp. 2491-2496, Nov. 2015.(**Impact factor: 0. 568**)
15. J.B.Maurya, **Y.K.Prajapati**, Vivek Singh, J. P. Saini, “Sensitivity Enhancement of Surface Plasmon Resonance Sensor Based on Graphene-MoS₂ Hybrid Structure with TiO₂-SiO₂ Composite Layer,” *Applied Physics A-Materials Science & Processing*, Vol. 121, Issue 2, pp 525-533, Nov. 2015., DOI 10.1007/s00339-015-9442-3, Springer publication(Online published). (**Impact factor: 1.704**)

16. J.B.Maurya, **Y.K.Prajapati**, Vivek Singh, J. P. Saini and Rajeev Tripathi, “Performance of Graphene-MoS₂ based Surface Plasmon Resonance Sensor using Silicon layer,” *Journal of Optical and Quantum Electronics*, Springer publication, Volume 47, issue 11, pp.3599-3611, Nov. 2015, DOI 10.1007/s11082-015-0233-z. **(Impact factor:0.987)**.
17. AnuragUpadhyay, **Y.K. Prajapati**, Vivek Singh and J.P. Saini, “Sensitivity estimation of metamaterial loaded planar waveguide,” *International Journal of Optical and Quantum Electronics*, Volume 47, Issue 7, Page 2277-2287, July2015. Springer publication. **(Impact factor: 0.987)**
18. Sarika Pal, **Y.K. Prajapati**, J.P. Saini, Vivek Singh, “Sensitivity enhancement of metal clad planar waveguide sensor using metamaterial layer as a guiding layer,” *Optik - International Journal for Light and Electron Optics*, Volume 126, Issue 14, July 2015, Pages 1372-1376. *Elsevier Publication Germany*. **(Impact factor: 0.677)**
19. **Y.Prajapati**, J.B.Maurya, Vivek Singh, J. P. Saini, “Modal Analysis and Dispersion Curves of an Elliptical W-type Single Mode Fiber”, *Journal of Optics and spectroscopy*, Vol. 118, No. 5, pp. 821–828, May 2015, Springer publication. **(Impact factor: 0.723)**.
20. AnuragUpadhyay, **Y. K. Prajapati**, Vivek Singh and J.P. Saini, “Comprehensive study of reverse index waveguide based sensor with metamaterial core,” *International Journal of Optics Communication*, Vol. 348, pp.71–76, March 2015. **(Impact factor: 1.449)**
21. PoojaLohia, **Y.Prajapati**, J.P. Saini and B.S. Rai, “Enhancement of single mode operation in Coaxial Optical waveguide using DB boundary conditions”, *International Journal Infrared Physics and Technology*, Vol.67, pp. 462–466, Sept. 2014, *Elsevier Publication*. **(Impact factor: 1.460)**
22. **Y.Prajapati**, Vivek Singh, and J. P. Saini, “Computing Eigenvalue equation and modal dispersion characteristics of an Elliptical Bragg waveguide” *International Journal for Light and Electron Optics (OPTIK)*, volume-125, pp. 5461–5466, Oct.2014, *Elsevier Publication Germany*. **(Impact factor: 0.677)**
23. **Y.Prajapati**, J. P. Saini, D.S.Chauhan and Vivek Singh, “Effect of Plasma on Modal Dispersion Characteristic of Elliptical Bragg Waveguide” *International Journal of Optoelectronics Review*, Vol. 22, no. 1, pp.16–23, March 2014, Springer publication. **(Impact factor: 1.667)**
24. **Y.Prajapati**, Vivek Singh and J. P. Saini, “Analysis of dispersion relation of the elliptical dielectric waveguides having M-type refractive index profile” *International Journal for Light and Electron Optics (OPTIK)*, volume-124, pp.1736-1740, July 2013, *Elsevier Publication Germany*. **(Impact factor: 0.677)**
25. **Y.Prajapati**, A.Yadav, V. Singh and J.P.Saini, “Effect of Metamaterial layer on optical surface plasmon resonance Sensor” *International Journal for Light and Electron*

Optics, Vol. 124, issue-18, pp.3607-3610, September 2013, Elsevier Publication Germany. (Impact factor: 0.677)

26. J.B.Maurya, **Y.Prajapati**, Vivek Singh, J. P. Saini, “Effect of cladding layers on the mode of circular optical waveguides” *International Journal for Light and Electron Optics (OPTIK)*, volume-124, issue-11, pp.1066-1069, June-2013, Elsevier Publication Germany. **(Impact factor: 0.677)**
27. D.Sharma, A.Verma**Y. Prajapati**, V. Singh and J.P.Saini, “Forward and Backward wave propagation in multilayer planar waveguide using Metamaterials layer” *International Journal of Optical and Quantum Electronics*, Volume-45, pp. 105–114, 2013, Springer publication. (**Impact factor: 1.29**)
28. **Y.Prajapati**, J. P. Saini, D.S.Chauhan and Vivek Singh, “Analytical solution of the scalar wave equation for slightly deformed optical Bragg waveguide” *International Journal of Russian Laser research*, volume-34, number-2, pp.110-116, March 2013, Springer publication. (**Impact factor: 0.546**)
29. **Y.Prajapati**, Vivek Singh and J. P. Saini, “Modal characteristic equation and dispersion characteristics for an elliptical Bragg waveguide with a small number of claddings” *Journal of Microwave and optical Technology Letters*, ISSN: 1098-2760, Wiley publication, Volume 53, Issue 4, April 2011, Pages: 932–938, (**Impact factor: 0.568**).
30. **Y. Prajapati**, Vivek Singh and J. P. Saini, “Modal Analysis of a Super Elliptical Bragg Waveguide With a Small Number of Periodic Cladding Layers Based on a Very Simple Analytical Technology,” *International Journal for Light and Electron Optics (OPTIK)*, volume-120, issue-1, pp.14-19, January 2009, Elsevier Publication Germany. **(Impact factor: 0.677)**
31. **Y. Prajapati**, Vivek Singh, and J. P. Saini, “Modal Analysis and Dispersion Curves of a Bragg Fiber Having Asymmetric loop boundary” *International Journal of Progress In Electromagnetics Research, U.S.A.*, ISSN: 1559-8985, E-ISSN: 1070-4698, vol. 87, pp. 117–130, 2008. **(Impact factor: 1.315)**
32. Vivek Singh, **Y. Prajapati** and J. P. Saini, “Modal Analysis and Dispersion Curves of a New Unconventional Bragg Waveguide Using a Very Simple Method,” *International Journal of Progress In Electromagnetics Research, U.S.A.*, ISSN: 1559-8985, E-ISSN: 1070-4698, vol. 64, pp. 191–204, 2006. **(Impact factor: 1.315)**

Published non- SCI but repute Research papers

33. Divya Sharma, **Y.K. Prajapati**, “Performance analysis of DWDM system for different modulation schemes using variations in channel spacing,” *Journal of Optical*

Communications, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: [10.1515/joc-2016-0011](https://doi.org/10.1515/joc-2016-0011), March 2016. (**Scopus Index**).

34. Pooja Lohia, **Y.K. Prajapati**, J.P. Saini and B.S. Rai, “Effect of Chirality on Dispersion Characteristics of Uniaxial Anisotropic Chiral Elliptical Waveguide,” Journal of Optical Communications, DOI: [10.1515/joc-2015-0104](https://doi.org/10.1515/joc-2015-0104), February 2016. (**Scopus Index**)
35. Sarika Pal, **Y.K. Prajapati**, J.P. Saini and V. Singh, “Resolution enhancement of optical SPR sensor using Metamaterial,” Journal of Photonics sensors, pp.1-9, DOI: [10.1007/s13320-015-0269-5](https://doi.org/10.1007/s13320-015-0269-5), Sept. 2015. Springer publication. (**Scopus Index**).
36. **Y.Prajapati**, Vivek Singh and J. P. Saini, “Dispersion characteristics of radially Asymmetric Bragg fiber” International Journal of Engineering, Science and Technology, Vol. 2, No. 12, 2010, pp. 36-41, 2010. ISSN: 2141-2839 (Online), ISSN 2141-2820 (Print), (Indexed in AJOL and DOAJ).
37. **Y.Prajapati**, Vivek Singh and J. P. Saini, “Modal Analysis and Dispersion Curves of Unconventional Bragg Waveguide” International journal of Telecommunications, U.K, ISSN: 2042-8839, volume-5, issue-1, pp. 22-25 (2010) (Indexed in [SCIRUS](#), [Scientific Commons](#) and [Google Scholar](#)).

Paper Publications in International Conferences

1. “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, Chennai, 21-23 Dec. 2009.
2. “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, ISSN: 1559-9450, Cambridge (U.S.A), July 5-8, 2010.
3. “Modeling of microstructure optical fiber” Shrish Bajpai, Jitu Sharma, Alka Verma, **Y. K. Prajapati**, J.P. Saini, International Conference on “Recent Trends in Engineering, Technology and Management (ICRTETM)”, BIET, Jhansi, 26-27, Feb. 2011, (ISBN: 978-93-80697-69-7).
4. “Modal analysis and Characteristics equation of plasma filled Multilayer optical waveguide” **Y. K Prajapati**, U. K. Yadav, Alka Verma, , Vivek Singh, J.P. Saini, International Conference on innovative science and Engineering Technology (ICISSET-2011) organized by V.V.P. Engineering College, Rajkot, India, 08-09, April 2011. (ISBN: 978-81-906377-5-6).

5. "Dispersion Characteristics of metamaterial based planar waveguide" D.Sharma, **Y. Prajapati**, V. Singhand J.P.Saini, International Conference on International Conference On Communications & Electronics (ICCE-2012) organized by Krishna Institute of Engineering and Technology (KIET), Ghaziabad, India, 19-20, October 2012.
6. "Optical losses in the Multilayered Optical Fiber having hollow core" Shrish Bajpai, **Y. Prajapati**, V. Singhand J.P.Saini, International Conference on International Conference On Communications & Electronics (ICCE-2012) organized by Krishna Institute of Engineering and Technology (KIET), Ghaziabad, India, 19-20, October 2012.
7. "Metamaterial based optical Surface plasmon resonance sensor" Archana Yadav, **Y. Prajapati**, V. Singhand J.P.Saini, International Conference on International Conference On Communications & Electronics (ICCE-2012) organized by Krishna Institute of Engineering and Technology (KIET), Ghaziabad, India, 19-20, October 2012.
8. "Shifting of modes for M- type triple- clad fiber" J.B.Maurya, **Y. Prajapati**, V. Singhand J.P.Saini, International Conference on International Conference On Communications & Electronics (ICCE-2012) organized by Krishna Institute of Engineering and Technology (KIET), Ghaziabad, India, 19-20, October 2012.
9. "Dispersion characteristics Analysis of Wave Propagation in Hollow Clad Elliptical Waveguide" Shrish Bajpai, **Y. Prajapati**, V. Singhand J.P.Saini, IEEE International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN-2012) organized by Sardar Vallabhbhai National Institute of Technology, Surat, India, 19-21, Dec.2012, (Paper ID :067C32)
10. "Effect of Eccentricity on dispersion of W-type Elliptical Fibers" **Y.Prajapati**, J.B.Maurya, V. Singh and J.P.Saini, IEEE International Conference on Microwave and Photonics (ICMAP2013), organized by Indian School of Mines, Dhanbad, India, 13-15, Dec.2013, 978-1-4799-2174-4/13/\$31.00@2013IEEE.
11. "Field confinement of stacked multilayer slab waveguide using graphene" by J.B. Maurya, **Y.K. Prajapati**, Vivek Singh, J.P. Saini, 12th International Conference on Fiber Optics and Photonics (Photonics-2014), December 13-16, 2014, IIT, Kharagpur, India.
12. Y.K. Prajapati, M. Raviteja, Sajal Agarwal, Alka Verma, "Design of Broadband and Polarization-independent Metamaterial Absorber Using N Helix," 9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2015 Oxford, pp. 141-143, ISBN 978-88-941141-0-2 United Kingdom, 7-12 September 2015.

13. Divya Sharma, J.B. Maurya, **Y.K. Prajapati**, “Effect of noise on constellation diagram of 100 Gbps DP-QPSK systems under influence of different digital filters,” IEEE International Conference on Microwave and Photonics (ICMAP2015), organized by Indian School of Mines, Dhanbad, India, 13-15, Dec.2015,[978-1-4673-6898-8/15/\\$31.00](https://doi.org/10.1109/ICMAP.2015.7310000)
[©2015 IEEE](https://doi.org/10.1109/ICMAP.2015.7310000)
14. Sajal Agarwal, **Y. K. Prajapati**, “Optimization of Top and Additive Layer Thickness of SPR Sensor for Sucrose Detection” International Conference on Advances in Computing, Control and Communication Technology, (IAC3T2016), organized by Allahabad University, Allahabad, India, 25-27, March 2016, pp. 102–106 (2016), ISBN: 978-93-85926-20-4.
15. Divya Sharma, **Y.K. Prajapati**, “Comparative aspect of different multi-channel DWDM optical network,” International Conference on Computing, Control and Communication Technology (IAC3T 2016), organized by Allahabad University, Allahabad, India, 25-27, March 2016, pp. 155–160 (2016), ISBN: 978-93-85926-20-4.
16. Singh, Anand, Divya Sharma, and **Y. K. Prajapati**, "Comparison of DPSK and QAM modulation schemes in Passive optical network." *International Conference on Fibre Optics and Photonics*, pp. Tu4A-56. Optical Society of America, 4-8 December 2016. <https://www.osapublishing.org/abstract.cfm?uri=Photonics-2016-Tu4A.56>
17. J.B. Maurya and **Y.K. Prajapati**, "Sensitivity Improvement of Graphene-Silicon Based One-Dimensional Photonic Crystal Biosensor," International Conference on Fibre Optics and Photonics, pp. W3A-22. Optical Society of America, 4-8 Dec. 2016. <https://www.osapublishing.org/abstract.cfm?uri=photonics-2016-W3A.22>
18. Sajal Agarwal and **Y.K. Prajapati**, “Application of TMDs in Nano-Absorbers: An Impression,” CLEO 2017, Conference on Lasers and Electro-Optics, San Jose Convention Center, San Jose, California, USA. Technical Conference: May 14-19, 2017 (Submitted id: 2696522)

Paper publications in National Conferences

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