

Mr. Narendra Pal

**PhD (Pursuing) NIT Patna,
M.Tech , B.Tech (ECE)**

Mob. No. – 9457546712

**Email-
narendrapal2002@gmail.com**



Worked as Assistant Professor at ICE Ghaziabad (21st Sep 2010 to 31st July. 2011)

Worked as Assistant Professor at RKGEC Ghaziabad (04th May 2009 to 06th Sep. 2010)

Worked as Assistant Professor at AKGEC Ghaziabad (31st July 2007 to 30th Apr. 2008)

Worked as Lecturer at Ideal Institute of Technology Ghaziabad (14th Mar 2005 to 02nd Feb. 2007)

Worked as Lecturer at BBDIT Ghaziabad (01st Feb 2004 to 13th Mar. 2005)

Industrial Experience (5.3 years)

Worked as Project Coordinator at Quantiser Telecom Ltd (02nd May 2008 to 01st May 2009)

Worked as Care Manager at Nokia Networks , Dehradun (07th Nov. 2014 to 30th Apr 2019)

Professional Access

Google Scholar https://scholar.google.com/citations?user=nJ_FzDIAAAAJ

Professional Activities

Reviewer of

1. Plasmonics, Springer
2. Wireless Personal Communications, Springer

Research Supervised

B.Tech (01), **MTech** (01)

Research Publications

SCI/SCIE/Scopus Indexed Journal- 08

Conference Publication- 11

Book Chapters- 02

Workshops/STC/STTP/FDP Organised/Attended

1. Short-Term Course on "*Patents and Pateomatic*" 09/01/2021 to 11/01/2021. (As **Coordinator**) at RIT,Roorkee
2. IEEE sponsored international conference "*ICIRASE-2021*" from 20/02/2021 to 21/02/2021.(Organising Committee Member at RIT,Roorkee
3. TEQIP-III Sponsored Short-Term Course on "*Recent Trends in Wireless Communication*" 20th July 2020 to 24th July 2020. at NITUK

Objective

To strengthen myself ceaselessly by constant learning and to utilize my skills and courage for achieving a position that will capitalize required expertise and experience.

Personal Skills

Exceptionally well organized, strong work ethics and willingness to work hard to achieve employers' objectives.

Research Interests

Optical Sensors, Plasmonic Sensors, Photonics, Metamaterials.

Academic Qualification

Course	Discipline/ Board	Institute/ University	Year	Remarks
Ph.D.	Design and Analysis of LRSPR sensor for Biosensing.	NIT Patna	Reg. since Jan. 2021	04 SCI Papers 02 Conf. Paper
MTech	Comm. Systems & Signal Processing	JIIT Noida	2009	
B.Tech.	Electronics & Telecommunication Engineering	IET, MJP Rohilkhand University, Bareilly	2002	

Teaching Experience (10.9 years)

Current working as **Assistant Professor (Guest Faculty)** at **Rajkiya Engineering College, Kannauj, UP (13 Sep 2021 to July 2022)**

Worked as Assistant Professor at Roorkee Institute of Technology, Roorkee (7th Feb. 2020 to 15th May 2021)

Worked as Assistant Professor at Krishna Engineering College, Ghaziabad (29th Jul. 2013 to 30th June 2014)

Worked as Assistant Professor at KNGD Engineering College, ModiNagar, Ghaziabad (5th Jan 2012 to 28th Jul. 2013)

4. TEQIP-III Sponsored Short-Term Training Programme on "*Intelligent Systems and Networks (ISN-2020)*" 31/08/2020 to 04/09/2020. at NITUK.

4. Lab In-charge DE Lab (July 2012- Aug 2013)
5. In-charge Examination- Dept. (Jan. 2013- Aug 2014)
6. In-charge Time Table- Dept. (Jan. 2011-Sep 2013)

Administrative Responsibilities

Handled at RKGIT Group of Institutions, Ghaziabad

1. Dept. level Coordinator– NBA, NAAC, Time-Table, Examination, Placement.
2. I/C- Digital Electronics Lab

Handled at RIT, AKGEC , KEC , Ghaziabad

1. Mentor in Start-up Conclave (1-5 March 2021)
2. First Year Coordinator (Nov 2020- May 2021)
3. Warden (Boys Hostel)- Aug. 2009- 01 June 2010

Personal Information

Mothers Name	Late Smt. Chandra Pal
Fathers Name	Mr. B.L. Pal
DOB	11 th Apr. 1980
Permanent Address	5B/C-23 Vrindavan Yojna Telibagh Raebareli road, Lucknow-226001
Temporary Address	Dept. of Electronics Engineering, National Institute of Technology, Uttarakhand, Srinagar Pauri Garhwal-246174

Courses Taught:

1. Basic Electronics.
2. Digital Electronics
3. Signals and Systems
4. Telecommunication Switching

SCI/SCIE/Scopus Indexed Journal Publications

1. Narendra Pal, J.B.Maurya (2023) ‘ Comparative Analysis of Different Dielectric Buffer Layer in a Highly Sensitive Long-Range Surface Plasmon Resonance Imaging Sensor Having PtSe₂ and Heterostructure of BlueP/MoS₂ ’ Plasmonics Journal : <https://doi.org/10.1007/s11468-023-02124-0> (SCI;IF:3.45)
2. Narendra Pal, J.B.Maurya (2023) “Black Phosphorus mediated Long-range SPR imaging sensor with ultrahigh imaging sensitivity, penetration depth and figure of merit” (Optik Journal) <https://doi.org/10.1016/j.ijleo.2023.171056> (SCI;IF:3.42)
3. Narendra Pal, J.B.Maurya, Y.K.Prajapati (2022) “ LiF-Ag-Si-TMDs based Long-Range SPR Sensor in Visible and NIR Spectrum” (*Optik Journal*) <https://doi.org/10.1016/j.ijleo.2023.170556> (SCI;IF:3.42)
4. Narendra Pal, J.B.Maurya, Y.K.Prajapati (2022) “Long-range SPR imaging sensor mediated by antimonene for biomoleculesensing with ultrahigh Imaging sensitivity and Figure of merit ” (*Plasmonic Springer Publication*) <https://doi.org/10.1007/s11468-022-01644-5> (SCI;IF:3.404)
5. Sarika Pal, Narendra Pal, Alka Verma, Jai Prakash Saini, Yogendra Kumar Prajapati (2021) “Analyzing the role of transparent conducting oxide in place of metals in SPR sensor for biomolecular detection in near infrared range”, *Results in Optics*, Vol. 3, 100078, ISSN 2666-9501, <https://doi.org/10.1016/j.rio.2021.100078>. (Open Access)
6. Rajeev Kumar, Sarika Pal, Narendra Pal, Alka Verma, JP Saini, Yogendra Kumar Prajapati (2021) “Figure of merit enhancement of Ti₃C₂Tx-graphene based long-range surface plasmon sensor at telecommunication wavelength”, *Optical and Quantum Electronics*, vol. 53(5), pp. 218 (1-15). <https://doi.org/10.1007/s11082-021-02862-7>. (SCI; IF: 2.08)

7. Rajeev Kumar, Sarika Pal, Narendra Pal, Vimal Mishra, Y.K. Prajapati, (2021) “High performance bimetallic surface plasmon resonance biosensor using black phosphorus-Mxene hybrid structure”, *Applied Physics A*, 2021, vol. 127 (4), pp. 1-12. <https://doi.org/10.1007/s00339-021-04408-w>. (SCI; IF: 2.58) ISBN:1432-0630
8. Anamika Teotia, Sarika Pal, Narendra Pal, (2018) “Performance Evaluation of surface plasmon resonance biosensor using metamaterial”, *Materials Today-Proceedings*, Vol No.5 ,pp.28384 - 28391 March 15-17, 2018(SCI;IF:1.24) <https://doi.org/10.1016/j.matpr.2018.10.123>

Book Chapters Authored

1. Sarika Pal, Narendra Pal, Y.K. Prajapati, J.P. Saini, (2020) “Sensitivity Analysis of Surface Plasmon Resonance Biosensor Based on Heterostructure of 2D BlueP/MoS₂ and MXene”, In: Inamuddin Rajender Boddula Mohd Imran Ahamed Abdullah M. Asiri (eds) *Layered 2D Advanced Materials and Their Allied Applications*, vol. pp. 103-129, 2020/5/18, John Wiley & Sons, Inc., doi: <https://doi.org/10.1002/9781119655190.ch5>. ISBN:9781119655190
2. Maneesh Kumar Singh, N. Pal, Sarika Pal, Y.K. Prajapati, J.P. Saini, Chapter -3 as “2D materials for gas and biosensing applications” in book title ‘Toxic Gas and Biosensors’ Eds. Inamuddin, Tauseef Ahmed and Rajnder Boddula, *Materials Research Foundations* vol. 92, pp. 69-106, 2021. DOI: <https://doi.org/10.21741/9781644901175-3>. ISBN : 9781644901168

International Conference Authored/Co-Author

1. Narendra Pal, Sarika Pal, Yogendra Prajapati , J. P. Saini, (2021), “A Comparative Performance Analysis of SPR Bio- sensor using Metamaterial and Different Metal Oxides ” 4th *International Conference on VLSI, Communication and Signal Processing (VCAS 2021)*, organized by ECED, MNNIT Allahabad, September 24-26, 2021.
2. Narendra Pal, Jitendra Bahadur Maurya, Y.K.Prajapati (2021) “Figure of Merit Analysis of LRSPP sensor using graphene in NIR regime” in 8th *International Conference , (SPIN 2021)*, organized by ECED, Amity University, Aug 08-11, 2021
3. Narendra Pal, (2021) “Parameter Analysis Erbium doped fiber Amplifiers” in *International Conference on Applied Sciences & Engineering , (ICIRASE 2021)*, organized by ECED RIT Roorkee, Feb 20-21, 2021.
4. Vipin Verma, Sarika Pal, Narendra Pal, Dharmendra Kumar (2020) “Performance Evaluation of SPR Sensor on using Graphene/TMDCs in Visible and Near Infrared Wavelength Regime” in 3rd *International Conference on VLSI, Communication and Signal Processing (VCAS 2020)*, organized by ECED, MNNIT Allahabad, October 09-11, 2020.
5. Rajeev Kumar, Sarika Pal, Narendra Pal, J. P. Saini, Yogendra Prajapati (2020), “Performance Evaluation of Bimetallic Surface Plasmon Resonance Sensor based on Ti₃C₂T_x (MXene)” 3rd *International Conference on VLSI, Communication and Signal Processing (VCAS 2020)*, organized by ECED, MNNIT Allahabad, October 09-11, 2020.
6. Sarika Pal, Anamika Teotia, Narendra Pal, Dharmendra Kumar (2020) “Improved Sensitivity of Metamaterial based SPR Biosensor using Zinc Oxide” 7th *International Conference on Signal Processing and Integrated*

Networks (SPIN-2020) held on 27-28 February, 2020 at Amity University, Noida Campus, India, Publication Date 2020/2/27, pp. 170-175, DOI: 10.1109/SPIN48934.2020.9070861. ISBN:9781728154756

7. Sarika Pal, **Narendra Pal**, Y.K Prajapati, J.P. Saini (2018) “[Performance Evaluation of SPR Biosensor using Metamaterial over Conventional SPR and Graphene based SPR Biosensor](#)”, *5th International Conference on Signal Processing and Integrated Networks, (SPIN-2018)*, organized by Department of Electronics and Communication Engineering, Amity University, Noida, Feb 22-23, 2018. ISBN:9781538630457
8. **Narendra Pal**, Sarika Pal, A. Yadav & P. Rana (2012) “[A Better matching Accuracy for Verification and Identification using Biometric Features](#)”, *Proceedings, International Conference on Computer & Communication Technology (ICCCT'12)*, organized by MNNIT Allahabad, U.P., India, 23-25 November. DOI: [10.1109/ICCCT.2012.49](#). ISBN:9781467331494
9. Sarika Pal, **Narendra Pal** & Avinash Kumar, (2010) “[Performance Analysis of OFDM Mobile Systems for Wireless Communication](#)”, *Proceedings, International Conference on Computer & Communication Technology (ICCCT'10)*, organized by MNNIT Allahabad, U.P., India, 17-19 September, DOI [10.1109/ICCCT.2010.5640503](#). ISBN:9781424490349

National Conference Authored

1. Maneesh Kumar Singh, Sarika Pal , **Narendra Pal** , Alka Verma (2021), “[Design and simulation of an antimonene based long range surface plasmon resonance sensor with ultra-high figure-of-merit](#)” *3rd National Conference on Recent Advancement in Physical Sciences (NCRAPS 2021)*, organized by NIT Uttarakhand, December 19-20, 2021.
2. Sarika Pal & **Narendra Pal** (2010) “[Inter-carrier Interference Self Cancellation Scheme for OFDM Mobile Systems](#)”, *Proceedings, National Conference on Advanced Computing & Communication Technology (ACCT'10)*, organized by Vysya College of Engineering, Rohtak, Haryana, India, 25-26 June, 2010.

Declaration

I hereby declare that all the information provided above is correct.

Date: 02 AUG 2023

Place: Lucknow



(Mr. Narendra Pal)

Comparative Analysis of Different Dielectric Buffer Layer in a Highly Sensitive Long-Range Surface Plasmon Resonance Imaging Sensor Having PtSe₂ and Heterostructure of BlueP/MoS₂