

BIO-DATA

1. Name of the Applicant : Dr. Kireet Semwal
2. Father's Name : Shri P. L. Semwal
3. Date of Birth : 13/03/1976
4. Address for Correspondence : Assistant Professor (Physics),
Applied Science & Humanities Department,
GB Pant Engineering College, Ghurdauri,
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8. Qualifications

Year	Degree	Board/University/ Institute
1994	B.Sc. (Physics, Chemistry, Mathematics)	H.N.B.Garhwal University, Srinagar (Garhwal)
1996	M.Sc. (Physics)	H.N.B.Garhwal University, Srinagar (Garhwal)
2000	M.Tech. (Physics)	G. B. Pant University of Agriculture & Technology Pantnagar, Uttarakhand
2010	Ph.D. (Physics)	H.N.B.Garhwal University, Srinagar (Garhwal)

- i. Have you qualified NET/SLET/SET? : CSIR-NET & GATE Qualified in Physics
- ii. Academic distinction : Junior Research Fellowship from IRDE (DRDO)
Dehradun

9. Experience

S.No.	University/ Institution	Post	From	To
1.	Instrument Research & Development Establishment (IRDE), (DRDO), Dehradun	Junior Research Fellow (JRF)	09-09- 2002	2-07- 2004
2.	Kumoun Engineering College, Dwarahat (Almora),	Contract- Lecturer	01-08- 2004	17-12-2006
3.	Government P.G. College, Kotdwara, Uttarakhand	Contract- Lecturer	18-12-2006	16-03- 2009
4.	G.B. Pant Engineering College, Pauri (Garhwal),	Contract- Lecturer	16-03-2009	13-09-2009
5.	G.B. Pant Engineering College, Pauri (Garhwal),	Contract- Lecturer	14-09-2009	23-12-2009
6.	GB Pant Engineering College, Pauri Garhwal,	Assistant Professor	24-12-2009	Till Date

10 Total Experience : 16 Yrs

11. Administrative Experience:

S.No.	Institution	Designation	From	To	Years	Months
1.	G.B.EC, ghurdauri, Pauri(Garhwal)	Hostel Warden	01-08-2012	Till Date	06	01
2.	G.B.EC, ghurdauri, Pauri(Garhwal)	Head, Applied Science & Humanities Department.	18-07-2017	04-03-2018	00	08
3.	G.B.EC, ghurdauri, Pauri(Garhwal)	O/c Library	20-11-2017	Till Date	10	00
4.	G.B.EC, ghurdauri, Pauri (Garhwal)	Proctor	21-08-2018	Till Date	01	00

12. Research Papers published

1. Kireet Semwal and S. C. Bhatt, "A noval switch mode power supply for flash lamp pumped Nd:YAG laser", Indian Journal of Applied Research, Vol. 1 (6), 73-75, March 2012.
2. Kireet Semwal and S. C. Bhatt, "Tuning of Wavelengths for Producing Eye Safe Laser Using Second Order Nonlinear Processes", International Journal of Optics and Applications 2012, 2(3)
3. Kireet Semwal "Prediction of snow avalanches by using surface layer heat fluxes", Science and Technology, 2(6), 156-162, 2012.
4. Kireet Semwal and S. C. Bhatt, "Wavelength Conversion of a Laser Beam using a Singly Resonant Continuous Wave Optical Parametric Oscillator", Proceedings of National Conference on Advances in Mathematics & its Applications, in NIT Hamirpur (HP) 54-61, 2013.
5. Kireet Semwal and S. C. Bhatt, "Study of Nd³⁺ ion as a Dopant in YAG and Glass Laser", International Journal of Physics, 2013, Vol. 1, No. 1, 15-21.
6. Kireet Semwal and S. C. Bhatt, "Study of Various modes in a Solid State Laser", International Journal of Science and Research (IJSR), Vol. 2 (6), June 2013.
7. Kireet Semwal and S. C. Bhatt, "Eye Safe Laser Using Optical Parametric Oscillation", International Journal of Computational Engineering Research, Vol. 03(6), June 2013.
8. Kireet Semwal and S. C. Bhatt, "Wavelength Conversion of a Laser Beam Using a CW Optical Parametric Oscillator" International Journal of Engineering Inventions Vol. 3(1), 31-42, (August 2013).
9. Kireet Semwal and S. C. Bhatt, "Study of Various Designs of Solid State Laser Oscillator", IOSR Journal of Engineering (IOSRJEN) Vol. 3(8), 11-22 (August. 2013).

13. Text/Reference Books

S. No.	Title with page no. and year	Book editor & publisher	ISSN/ ISBN
1.	Eye Safe Laser, 252 page (2012)	Lambert Academic Publishing, Germany	ISBN:9783847348740

14. Details of Refresher Course/Orientation Course/Summer Institute Attended:

S.No.	Name/Nature of the Course	Institute and Place	Dates/Period	Duration
1.	Physics Laboratory Organization & Updating	NITTTR, Chandigarh	19-23 July,2010	One week
2.	Modeling & Simulation Using MATLAB	NITTTR, Chandigarh	14-18 January, 2013	One week
3.	MATLAB & LabVIEW	NITTTR, Chandigarh	22-26 July, 2013	One week
4.	Information Technology and its Impact on Society-“A New Horizon of Energy Efficiency and E-Waste Management” (IT IS-2013)	GBPEC, Pauri	26-30 August, 2013	One week
5.	Eco-Technology for Sustainable Development (ETSD-2013)	GBPEC, Pauri	21-25 October, 2013	One week
6.	Advancements in Cloud Computing	GBPEC, Pauri	27-31, May, 2014	One week
7.	Academic Excellence in Engineering Education	Engineering Staff College of India, Hyderabad, at GBPEC Pauri	5-6 May, 2014	One week
8.	Pedagogical Training For Engineering Faculties	Engineering Staff College of India, Hyderabad, at GBPEC Pauri	4-8, August, 2014	One week
9.	Hadoop and its Applications	Department of Computer Science & Applications At GBPEC, Pauri	21-25 April, 2015	One week
10.	MATLAB and Simulink:Signal Processing and Control System Design	NITTTR, Chandigarh	29Aug 2016 to 02 Sept 2016	One week
11.	Advances in Laser Technology	NITTTR Chandigarh	21- 25 Aug. 2017	One week
12.	Digital Signal & Image Processing	Department of Computer Science & Applications At GBPIET, Pauri	22-26 June, 2018	One week
13.	Modeling and Simulation of Advanced Semiconductor Devices & VLSI Circuits	Department of Computer Science & Applications At GBPIET, Pauri	25-29 June, 2018	One week
14.	TEQIP III Summer Course	IIT Roorkee	02-06 July, 2018	One week

15. Invited Lectures/Papers presented in Conferences, Seminars, Workshops, Symposia

S.N.	Title of the paper	Title of Conference/Seminar	Organized by	Level
1.	Laser & its Applications	National Workshop on Concept of Physics: Popular lectures, Demons and Low Cost Experiment-2	Department of Physics, Govt. Degree College, Joshimath (Chamoli) Uttarakhand (21-22 Feb 2015)	National
2.	Eye Safe Laser	National Conference on Recent Advances in Material Science (NCRAMS-13)	Department of Physics, HNB Garhwal University, Srinagar (Garhwal)(26-27, October, 2013)	National
3.	Management of class rooms with effective teaching skills	4 th International conference on finance and business management (ICFBM-13)	Society of Technical and Management Professionals (STMP), Haridwar, (15-16, June, 2013)	International
4.	Wavelength conversion of a laser beam using a c-w optical parametric oscillator	International conference on Ceramics (ICC-12)	Govt. Engineering College Bikaner, and Ceramic Electrical Research & Development Centre, Bikaner, Rajasthan (12-13, Dec-2012)	International
5.	Broad Tunable Range Optical Parametric Oscillator	Mind, Matter and Mathematics: A Dialogue	Department of Physics & Mathematics, Govt. PG College New Tehri (Garhwal), Uttarakhand (12-14 March, 2014)	National
6.	Study of Nd ³⁺ ion as a dopant in YAG and Glass Laser	National Conference on Recent Advances in Mechanical Engineering (NCRAME-2013)	GBPEC, Pauri, Uttarakhand (8-9 July, 2013)	National
7.	Wavelength conversion of a laser beam using a singly resonant c-w optical parametric oscillator	National Conference on Role of Mathematics & its Applications in Development of Science and Technology	Department of Mathematics, Govt. P. G. College, Lansdowne, Pauri (Garhwal), Uttarakhand (1-22, March, 2013)	National
8.	Conversion of Frequency using Nonlinear Crystal in Optical Parametric Oscillation: A Second Harmonic Generation Process	National Conference on Role of Mathematics & Physical Sciences in Engineering & Technology	Department of Mathematics and Physics, Govt. Degree College, Karanprayag (Chamoli), Uttarakhand (21-22, October, 2011)	National
9.	Study of Eye Safe Laser using Optical Parametric Oscillation	National Seminar on Recent Trends in Micro and Macro Physics (NSRTMMMP-2011)	Department of Physics, Govt. PG College, Gopeshwar (Chamoli), Uttarakhand (12-13, October, 2011)	National
10.	8-mJ, 1525nm Diode-Pumped Nd:YAG Eye-Safe Laser	4 th Uttarakhand State Science and Technology Congress-2009,	GB Pant University of Agriculture & Technology, Pantnagar, Uttarakhand (10-12 Nov-09)	State
11.	A Noval Switch Mode Power Supply for Flash Lamp Pumped Nd:YAG Laser	3 rd Uttarakhand State Science and Technology Congress-2008,	IIT Roorkee, Uttarakhand (10-11 Nov 2008)	State

(Dr. Kireet Semwal)