#### Kumaun University, Nainital Curriculum Vitae

Name	: Dr. Bimal Pande	
Designation	: Professor	
Department	: Physics	
Contact Information		
• Email Address	: pandebimal@yahoo.co.in	
Mobile No	: 9412044061	
LinkedIn Profile (Optional)	:	
ORCD ID	: <u>https://orcid.org/0000-0001-8563-3680</u>	
Scopus ID	:	
https://www.scopus.com/aut	hid/detail.uri?authorId=7006426970	
Vidwan ID	:	

### **Educational Qualification**

Degree	University	Subjects	Year
Ph.D.	Kumaun University	Physics	2002
NET (JRF)	CSIR	Physical Sciences	1998
M.Tech.	GBPUAT	Cold Region Science &	1997
	Pantnagar	Engineering	
M.Sc.	Kumaun University	Physics	1993
B.Sc.	Kumaun University	Physics, Chemistry,	1991
		Mathematics	

# Work Experience (add row if required)

Position	Department	University/Organization	Year	
	1			
Professor	Physics	Kumaun University	2020 onwards	
Associate	Physics	Kumaun University	2017 -2020	
Professor				
Assistant	Physics	Kumaun University	2005 - 2017	
Professor				
Assistant	Physics	Kumaun University	2002 - 2005	
Professor				
(Contract)				
Contract	Physics	Govt. P.G. College	2001-2002	
Faculty		Kashipur		
Scientist 'B'	SASE, Chandigarh	DRDO, Defence Ministry,	1997-1998	
		Govt. of India		
Administrative Responsibilities NA				
Position	Nature of	University/Organization	Year	
	responsibility			
	- V			

#### **Research Interests**

Presently I am working on study of different solar activities, its effect on space weather and MHD study of solar eruptive phenomenon. I have also initiated and successfully implemented the installation of Lightening Detection System (LDS) at the Department of Physics DSB Campus Kumaun University for monitoring & investigations on lightning phenomena and its associated processes (in collaboration with National Remote Sensing Centre (NRSC) ISRO, Department of Space, Govt. Of India).

a) Research Papers (add row if required)				
Authors name	Title of the paper	Journal, Vol, Page no	Year	
Mahesh Mathpal, Alankrita Joshi, Raj Kumar, Seema Pande & <b>Bimal Pande</b>	Dependence of Total Column Ozone on Different Solar Activity Features	Indian Journal of Pure & Applied Physics 62 245-255	2024	
Deepak Pandey, <b>Bimal Pande</b> et al.	Comparative analysis of type III solar radio bursts associated with solar particle events and its impact on space weather for solar cycle 23 & 24	Astrophysics and Space Science 367(9) 1-9	2022	
Y.Chandra, <b>Bimal Pande</b> et al.	N-S Asymmetry and Periodicity of Daily Sunspot number during solar cycles 22- 24	Astrophysics 65(3) 404 - 413	2022	
Charita Pant, <b>Bimal Pande</b> et al.	Evaluation of reconnection parameters for collision less dispensation in solar	Jnanabha (The Vijnana Parishad of India) 52(1) 22-29	2022	
Seema Pande Deepak Pandey, <b>Bimal Pande</b>	Analysis of associated and non – associated type II radio bursts in relationship to flares and CME's for solar cycle 24	Bulgarian Journal of Physics 48 320-337	2021	
Y Chandra, <b>Bimal</b> <b>Pande</b> etal	Variability of total column ozone with solar activity features at northern and eastern regions of India	Applied Ecology and Environmental Sciences 8(6) 441- 450	2020	
Raj Kumar, Ramesh Chandra, <b>BimalPande</b> ,	Statistical study of north–south asymmetry during	Journal of Astrophysics and Astronomy (Indian Academy of Sciences)	2020	

#### Publications (start from recent publications)

Seema Pande	solar cycles	41(1)	
	21,22,23and 24	1-8	
Bimal Pande,	Study of alfven waves	Jnanabha (The Vijnana	2020
et al.	using magneto	Parishad of India)	2020
	hydrodynamic	50(2)	
	equations in solar	236-243	
	atmosphere	230-243	
Bimal Pande,	Statistical analysis of	Jnanabha	2019
Seema Pande et al.	the asymmetric	(The Vijnana Parishad of	
	behavior of different	India)	
	solar activity features	49(2)	
	during solar cycles 20-	64-81	
	24		
B Pande, Seema	Solar Flares, CMEs	Advances in Space	2018
Pande, R Chandra,	and solar energetic	Research	
M C Mathpal	particle events during	61(2)	
	solar cycle 24	777-785	
Bimal Pande	Application of soft	Journal of Mountain	2019
et al	computing (ANN)	Research	
	Techniques to study	14(1)	
	the relationship	69-71	
	between solar activity		
	features and total		
	column ozone		
Bimal Pande,	Statistical study of	Journal of Mountain	2019
Sneh Joshi,	variability in rainfall	Research	
Seema Pande	and analysis of	14(1)	
	extreme rainfall	55-58	
	events for hill stations		
	of Uttarakhand.		
Raj kumar,	Statistical study of north –south	Journal of Mountain	2019
Mahesh Mathpal,	asymmetry during	Research	
Bimal Pande,	solar cycles	14(1)	
Seema Pande	21,22,23 and 24	73-75	
Mahesh Mathpal,	Dependance of	Journal of Mountain	2019
Bimal Pande	rainfall on solar	Research	
Seema Pande	activity features	14(1)	
C Den 1 M	Denend	77-79	2017
S. Pande, M.	Dependance of	Internationa lAdvanced	2017
Mathpal and <b>B</b> .	Intense Geomagnetic	Research Journal in Science,	
Pande	Storms on the	Engineering and	
	interplanetary field/	Technology	
	plasma parameters	4 5-12	
	during solar cycle 23 &24	5-12	
D Dondo C Donda		Descend and Deviewer	2017
<b>B. Pande,</b> S.Pande et al	Statistical analysis of	Research and Reviews:	2017
CI di	geomagnetic activity and solar activity	Journal of Physics	
	features during solar	6(2) 14-20	
	reatures untilig solar	14-20	

	cycle 23 &24		
H. Bisht, <b>B. Pande</b>	Geoeffectiveness of	New Astronomy (Elsevier)	2017
et al	solar eruptions during	51	2017
	the rising phase of	74-85	
	solar cycle 24	, 1 00	
H. Bisht, <b>B.</b>	Statistical study of	Indian Journalof Radio and	2014
Pande, R.	different solar activity	Space Physics	2011
Chandra, S.Pande	features with total	43	
chandra, bir anac	column ozone at two	251-262	
	hill stations of		
	Uttarakhand		
Sneh Joshi, <b>Bimal</b>	Rainfall Variability and	Natural Hazards(Springer)	2013
Pande et al	indices of extreme	72(2), 361-374	
	Rainfall-analysis and		
	perceptions study for		
	two station over central		
	Himalaya, India		0010
Sneh Joshi, <b>Bimal</b> <b>Pande</b> et al	GPS-derived	Meterology and Atmospheric	2013
rance et al	precipitable water vapour and its	Physics (springer) 013, 242	
	comparison with	013, 242	
	MODIS Almora central		
	Himalayan India		
M.R.Samal, Bimal	Star formation and	Astrophysical journal	2012
Pande, et al	young population of the	755,20	
	HII Complex Sh2-294		
A.Guharay, <b>Bimal</b>	Observation of the	International Journal of	2011
Pande et.al.	Ultra-Fast Kelvin	Remote Sensing (Taylor &	
	Kelvin wave in the	Francis) 32,11	
	tropical mesosphere during equinox		
Indira	Evaluation of different	Renewable and Sustainable	2011
Krakoti, <b>Bimal</b>	diffuse radiation models	Energy Reviews(Elsevier)	2011
Pande and Kavita	for Indian Stations and	15,2378-2384	
Pande	predicting the best fit		
	model		
NS Bankoti, NC	Correlative study of	Quaternary International	2011
Joshi, S Pande,	different solar activity	229 (1)	
<b>B Pande</b> , K	features with all India	8-15	
Pandey	homogeneous rainfall		
	during 1963–2006		
N C Joshi, N S	Statistical analysis of	New Astronomy	2010
Bankoti, S Pande,	soft X-ray solar flares	15,6	
<b>B Pande</b> , W	during solar cycles	538- 546	
Uddin, K Pandey	21,22 and 23.	NT A	2010
N C Joshi, N S	North- South	New Astronomy	2010
Bankoti, S Pande,	Asymmetry of	15,6	
<b>B Pande</b> , K	differentsolar activity	561- 568	
Pandey	features during solar		
A Cubarar Direct	cycle 23.	Ann Coonhusisse	2000
A.Guharay, <b>Bimal</b> <b>Pande</b> et al	Observation of	Ann. Geophysicae	2009
i anue et al	semiannualpattern	27,4273-4280	

A.Guharay, Bimal	Middle atmospheric	Journal of Geophysical	2009
Pande et al	A comparative Study	Research	
		114	
A.Guharay, Bimal	First ground based	Current Science	2009
Pande et al	Himalayas	97,5, 664-669	
N C Joshi, N S	Study of distribution	Solar Physics	2009
Bankoti, S Pande,	and Asymmetry of	260	
<b>B Pande</b> , K	Solar Active	451-463	
Pandey	prominences during		
	Solar Cycle 23		
S. Pande, <b>B</b>	Hά, EUV and UV	Indian Journalof Radio and	2008
Pande, W Uddin,	analysis of an eruptive	Space Physics	
K Pandey	3B/X1.2 flare	37	
		386- 390	
S. Pande, <b>B</b>	Study of MHD modes	Journal of Ultra Scientistof	2008
Pande, K Pandey	of oscillations in Solar	Physical	
	coronal arcades	20(1)	
		27-34	

#### b) Patents (start from recent publications) NIL

Authors name	Title of the patent	Patent no (Granted or filed)	Year

#### c) Books (start from recent publications) NIL

Authors name	Title of the book	Publisher	ISBN	Year

#### d) Book chapters (start from recent publications) NIL

Authors name	Title of the book	Publisher	ISBN	Year

# e) Conference Publications/Proceedings (start from recent publications) (add row if required)

Authors name	Title of the paper	Conference name	Year
Bimal Pande	Application of soft	Advances in physics from	2018
et al	computing (ANN)	small to large scales	
	Techniques to study		
	the relationship		
	between solar		
	activityfeatures and		
	total column ozone		
Bimal Pande,	Statistical study of	Advances in physics from	2018
Sneh Joshi,	variability in rainfall	small to large scales	
Seema Pande	and analysis of		
	extreme rainfall		
	events for hill		
	stationsof		

	Uttarakhand.		
Raj kumar,	Statistical study of	Advances in physics from	2018
Mahesh	north –south	small to large scales	
Mathpal,	asymmetry during		
Bimal Pande,	solar cycles 21,22,23		
Seema Pande	and 24		
Mahesh	Dependance of	Advances in physics from	2018
Mathpal,	rainfall on solar	small to large scales	
<b>Bimal Pande</b>	activity features		
Seema Pande			
	activity features		

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Project	s NIL

Title of the project	Funding agency	Amount (Rs)	Year

# Teaching details (add row if required)

Name of the	Department	University	Year
course/paper			
Mathematical	Physics	Kumaun University	2002-2003
Physics and			
Classical			
Mechanics (PG)			
Electricity and	Physics	Kumaun University	2002-2005
Magnetism (UG)			
Advanced	Physics	Kumaun University	2003- Till
Quantum			now
Mechanics(PG)			
Advanced	Physics	Kumaun University	2005-2009
Electronics (PG)			
Electrodynamics	Physics	Kumaun University	2010-Till
(PG)			now
Basic Electronics	Physics	Kumaun University	2005-2023
(UG)			
Analog and Digital	Physics	Kumaun University	2015-2023
Electronics (UG)	-		

## Professional Memberships

Organization	Position	Year
Astronomical Society of India (ASI)	Life- member	2007

#### Honours and Awards (add row if required)

Award	Awarding Organization	Year
Gold Medal for First	Kumaun University	1991
position in Kumaun		
University at UG		
Gold Medal for First	U.P. Govt.	1991
position in Kumaun		
University at UG		
Gold Medal for First	Kumaun University	1993
position in Kumaun		
University at PG		

Title of presentation	Conference name	Name of the institution	Year
Role of Artificial Neural Network to understand the Solar – Terrestrial relationship (Invited)	3 <sup>rd</sup> IEEE International Conference on Internet of Things: Smart Innovation and Usages	Birla Institute of Applied Sciences, Bhimtal	2018
Statistical study of variability in Rainfall and Analysis of Extreme Rainfall Events for Hill Stations of Uttarakhand (Oral)	Advances in physics from small to large scales	Kumaun University Nainital	2018
Importance of Solar Energetic Particles and their characteristics (Invited)	9 <sup>th</sup> Conference of Indian Science Congress Association (Haridwar Chapter)	Indian Science Congress Association	2018
Covariant Formulation of MHD Equations for Quantum Plasma (Invited)	8 <sup>th</sup> Conference of the Indian Science Congress Association (Haridwar Chapter)	Indian Science Congress Association	2017
Analysis of Geomagnetic activity during Solar Cycle 24.	International conference on Science, Social Science, Agriculture and Management	Birla Institute of Applied Sciences, Bhimtal	2017
Statistical analysis of geomagnetic activity During solar cycle 23 &24 (Poster)	BINA International conference and workshop	ARIES Nainital	2016
Multiwavelength analysis of solar activity. (oral)	National Seminar on recent development in Physics & Prosperity in Solar Physics- Space Science	Kumaun University Nainital	2014
Geoeffectiveness of solar eruptions during the rising phase of solar cycle 24 (Poster)	33 <sup>rd</sup> meeting of the Astronomical Society of India held at NCRA Pune.	Astronomical Society of India	2015

#### **Conference Presentations (add row if required)**

Signature of the faculty member