# Kumaun University, Nainital
## Curriculum Vitae


Name : Dr. Seema Pande

Designation : Professor

Department : Physics

Contact Information

- Email Address : pande.seema@yahoo.com
- Mobile No : 9412361931

LinkedIn Profile (Optional) :

ORC ID : https://orcid.org/0000-0002-8200-8174

Scopus ID :
https://www.scopus.com/authid/detail.uri?authorId=57189334626

Vidwan ID :


**Educational Qualification**

| Degree | University | Subjects | Year |
|---|---|---|---|
| Ph.D. | Kumaun University | Solar Physics | 2008 |
| NET | CSIR | Physical Sciences | 2002 |
| M.Sc. | Kumaun University | Physics | 2001 |
| B.Sc. | Kumaun University | Physics, Chemistry, Mathematics | 1999 |
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**Work Experience (add row if required)**

| Position | Department | University/Organization | Year |
|---|---|---|---|
| Professor | Physics | Kumaun University | 2020 onwards |
| Associate Professor | Physics | Kumaun University | 2017 -2020 |
| Assistant Professor | Physics | Kumaun University | 2015 -2017 |
| Assistant Professor | Physics | M.B. Govt. P. G. College, Haldwani | 2005 -2015 |
| Assistant Professor (Contract) | Physics | Kumaun University | 2003 -2005 |

**Administrative Responsibilities (add row if required)**

| Position | Nature of responsibility | University/Organization | Year |
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**Research Interests**

My research interests include the study of solar eruptive phenomena, their magnetohydrodynamical interpretation as well as the solar-terrestrial links affecting the earth's magnetosphere and environment.

**Publications (start from recent publications)**

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** & Bimal Pande | Dependence of Total Column Ozone on Different Solar Activity Features | Indian Journal of Pure & Applied Physics<br>62<br>245-255 | 2024 |
| Deepak Pandey, **SeemaPande** 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<br>367(9)<br>1-9 | 2022 |
| Y.Chandra, **Seema Pande** et al. | N-S Asymmetry and Periodicity of Daily Sunspot number during solar cycles 22-24 | Astrophysics<br>65(3)<br>404 - 413 | 2022 |
| Charita Pant, **Seema Pande**et al. | Evaluation of reconnection parameters for collision less dispensation in solar | Jnanabha (The Vijnana Parishad of India)<br>52(1)<br>22-29 | 2022 |
| **Seema Pande** Deepak Pandey, Bimal Pande | Analysis of associatedand non – associated type II radio bursts in relationship to flares and CME's for solar cycle 24 | Bulgarian Journal of Physics<br>48<br>320-337 | 2021 |
| Y Chandra, **Seema Pande** et al | Variability of total column ozone with solar activity features at northern and eastern regions of India | Applied Ecology and Environmental Sciences<br>8(6)<br>441- 450 | 2020 |
| Raj Kumar, Ramesh Chandra, Bimal Pande, **Seema Pande** | Statistical study of north–south asymmetry during solar cycles 21,22,23and 24 | Journal of Astrophysics and Astronomy (Indian Academy of Sciences)<br>41(1)<br>1-8 | 2020 |
| **Seema Pande,** et al. | Study of alfven waves using magneto | Jnanabha (The Vijnana Parishad of India) | 2020 |

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| | hydrodynamic equations in solar atmosphere | 50(2)<br>236-243 | |
| Bimal Pande, **Seema Pande** et al. | Statistical analysis of the asymmetric behavior of different solar activity features during solar cycles 20-24 | Jnanabha<br>(The Vijnana Parishad of India)<br>49(2)<br>64-81 | 2019 |
| B Pande, **Seema Pande**, R Chandra, M C Mathpal | Solar Flares, CMEs and solar energetic particle events during solar cycle 24 | Advances in Space Research<br>61(2)<br>777- 785 | 2018 |
| **S. Pande**, M. Mathpal and B. Pande | Dependance of Intense Geomagnetic Storms on the interplanetary field/ plasma parameters during solar cycle 23 &24 | International Advanced Research Journal in Science, Engineering and Technology<br>4<br>5-12 | 2017 |
| B. Pande, **S. Pande** et al | Statistical analysis of geomagnetic activity and solar activity features during solar cycle 23 &24 | Research and Reviews: Journal of Physics<br>6(2)<br>14-20 | 2017 |
| H. Bisht, **S.Pande** et al | Geoeffectiveness of solar eruptions during the rising phase of solar cycle 24 | New Astronomy (Elsevier)<br>51<br>74-85 | 2017 |
| H. Bisht, B. Pande, R. Chandra, **S. Pande** | Statistical study of different solar activity features with total column ozone at two hill stations of Uttarakhand | Indian Journalof Radio and Space Physics<br>43<br>251- 262 | 2014 |
| NS Bankoti, NC Joshi, **S Pande**, B Pande, K Pandey | Correlative study of different solar activity features with all India homogeneous rainfall during 1963– 2006 | Quaternary International<br>229 (1)<br>8-15 | 2011 |
| N C Joshi, N S Bankoti, **S Pande**, B Pande, W Uddin, K Pandey | Statistical analysis of soft X-ray solar flares during solar cycles 21,22 and 23. | New Astronomy<br>15,6<br>538- 546 | 2010 |
| N C Joshi, N S Bankoti, **S Pande**, B Pande, K Pandey | North- South asymmetry of different solar activity features during solar cycle 23. | New Astronomy<br>15,6<br>561- 568 | 2010 |
| N C Joshi, N S Bankoti, **S Pande**, B Pande, K Pandey | Study of distribution and Asymmetry of Solar Active prominences during Solar Cycle 23 | Solar Physics<br>260<br>451- 463 | 2009 |

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|---|---|---|---|
| **S. Pande**, B Pande, W Uddin, K Pandey | Hά, EUV and UV analysis of an eruptive 3B/X1.2 flare | Indian Journal of Radio and Space Physics<br>37<br>386- 390 | 2008 |
| **S. Pande**, B Pande, K Pandey | Study of MHD modes of oscillations in Solar coronal arcades | Journal of Ultra Scientist of Physical Sciences<br>20(1)<br>27-34 | 2008 |

b) Patents (start from recent publications) **(add row if required)**

| Authors name | Title of the patent | Patent no (Granted or filed) | Year |
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c) Books (start from recent publications) **(add row if required)**

| Authors name | Title of the book | Publisher | ISBN | Year |
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d) Book chapters (start from recent publications) **(add row if required)**

| Authors name | Title of the book | Publisher | ISBN | Year |
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e) Conference Publications/Proceedings (start from recent publications) **(add row if required)**

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

**Projects (add row if required)**

| Title of the project | Funding agency | Amount (Rs) | Year |
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**Teaching details (add row if required)**

| Name of the course/paper | Department | University | Year |
|---|---|---|---|
| Advanced Electronics | Physics | Kumaun University | |
| Plasma Physics | Physics | Kumaun University | |
| Communication Electronics | Physics | Kumaun University | |
| Modern Physics | Physics | Kumaun University | |
| Electronics | Physics | Kumaun University | |
| Electricity and Magnetism | Physics | Kumaun University | |
| Waves and oscillations | Physics | Kumaun University | |

**Professional Memberships (add row if required)**

| Organization | Position | Year |
|---|---|---|
| The Vijnana Parishad of India | Life- member | 2019 |
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**Honours and Awards (add row if required)**

| Award | Awarding Organization | Year |
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**Conference Presentations (add row if required)**

| Title of presentation | Conference name | Name of the institution | Year |
|---|---|---|---|
| Application of soft computing (ANN) techniques to study the relationship between solar activity features and total column ozone (Oral) | Advances in physics from small to large scales | Kumaun University Nainital | 2018 |
| Particle interactions in the Macroscopic World (Invited) | 8$^{th}$ Conference of the Indian Science Congress Association (Haridwar Chapter) | Indian Science Congress Association | 2017 |
| An overview of solar activity during solar cycles 22,23 and 24. | International conference on Science, Social Science, | Birla Institute of Applied Sciences, Bhimtal | 2017 |

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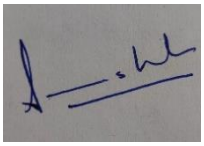
| | Agriculture and Management | | |
| Multiwavelength study of a prominence associated with a CME during rising phase of solar cycle 24. (Invited talk) | 19th International Conference of International Academy of Physical Sciences | International Academy of Physical Sciences | 2016 |
| Study of relationship between IMF parameters and Geomagnetic Storms from 1996 to 2015..(Poster) | BINA International conference and workshop | ARIES Nainital | 2016 |
| Role of magnetic reconnection in Solar Activity.(Invited) | National Seminar on recent development in Physics & Prosperity in Solar Physics- Space Science | Kumaun University Nainital | 2014 |
| Statistucal study of DSAF ……Uttarakhand (Poster) | 33rd meeting of the Astronomical Society of India held at NCRA Pune. | Astronomical Society of India | 2015 |
| A statistical study of different solar activity features (DSAF)with total column zone | National Conference held at MBPG College Haldwani | MBPG College Haldwani | 2012 |
| Experimental techniques in Physics | State Workshop held at Uttrakhand Open University | Uttrakhand Open University | 2014 |



**Signature of the faculty member**