

# CURRICULUM VITAE

## **Dr Smriti Singh**

Assistant Professor, Botany  
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To associate myself with an organization of repute, that has potential for both organizational and personal growth and provides ample scope to learn, improvise and implement.

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## **Education**

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2014 - PhD (Botany/Ecotoxicology), Banaras Hindu University (BHU), Varanasi  
2006 - MSc (Botany, **86.6%**), Banaras Hindu University (BHU), Varanasi  
2004 - BSc (Botany (Hons) **72.4%**), Banaras Hindu University (BHU), Varanasi  
2000 - Intermediate, **84.3%**, CBSE  
1998-Matriculate, **86.5%**, CBSE

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## **Awards**

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2006- Junior Research Fellowship (JRF) through National Eligibility Test (NET)  
conducted by UGC/CSIR  
2006- GATE  
  
2018- GPSC Assistant Professor (Ad 86/2016) – Top rank  
  
2019- BPSA Assistant Professor (Ad No - 67/2014) – Top rank  
  
Nodal Officer for EK BHARAT SHRESHTHA BHARAT for Government Science College  
Idar

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## **Professional Positions**

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Working as an Assistant Professor in Government Science College, Idar, Sabarkantha, Gujarat since **5<sup>th</sup> September 2018**.

**July 2012 to December 2014** - Worked as Assistant Professor in the pay scale of Rs. 15,600/-6000- 39,100/- (Academic Grade Pay) in Acharya Naredra Dev College, Govindpuri, Kalkaji-110019, **University of Delhi**

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## Professional Skills

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Experience in Research Methodologies

### Soil analysis

- Physical parameters: (pH, EC, BD, Moisture, WHC etc)
- Biochemical parameters: (Dehydrogenase, Acid phosphatase, Alkaline phosphatase, Soil respiration)
- Toxicological Parameters: Toxic heavy metals (Cd, Co, Mn, Ni, Zn, Cu, Hg, As etc, Organic Compounds (PAHs/PCBs)

### Genotoxic Parameters

- *Allium cepa* test, Comet Assay

### Phytotoxic Parameters

- Antioxidants (Carotenoids and Chlorophyll, Ascorbic acid, Non protein thiol, Proline, Glutathione, Cysteine)
- Antioxidative enzymes (Superoxide dismutase (SOD), Ascorbate peroxidase (APX), Catalase (CAT), Glutathione reductase (GR)

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## Publications

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- Seven (7) publications  
**For detail please refer Annexure1**
- One (1) book chapter  
**For detail please refer Annexure2**

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## Conferences/Seminars/Workshops

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- Attended and/ or participated in one International conference
- Attended and/ or participated in 8 national conference/ seminar/workshop

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Information provided is authentic and sufficient but will be glad to furnish anymore if needed.

**Dr Smriti Singh**

## Annexure 1

- L.C. Ram, R.E. Masto, **Smriti Singh**, R.C. Tripathi, S.K. Jha, N.K. Srivastava, A.K. Sinha, V.A. Selvi, A. Sinha “An Appraisal of Coal Fly Ash Soil Amendment Technology (FASAT) of Central Institute of Mining and Fuel Research (CIMFR)” *World Academy of Science, Engineering & Technology*, 5(4), 255-266, publication date:- 22/4/2011
- **Smriti Singh**, Lal C. Ram, Reginald E. Masto “A comparative evaluation of minerals and trace elements in the ashes from lignite, coal refuse, and biomass fired power plants” has been for published in *International Journal of Coal Geology* 87, 112–120, 2011
- **S Singh**, LC Ram, and AK Sarkar “Mineralogical Characteristics of the Ashes derived from Combustion of Lignite, Coal Washery Rejects, and Mustard Stalk” *Energy Resources Part A: Recovery, Utilization, and Environmental Effects*, 35:2072–2085, 2013, Taylor & Francis Group, LLC ISSN: 1556-7036 print/1556-7230 online
- **Smriti Singh**, A.K. Sinha, L.C.Ram. (Socio-ecological and economical impact of fly ash in soil remediation) published in *Bharatiya Vaigyanik evam Audyogik Anusandhan Patrika*, 16(2), Dec., 2009, 137-151, NISCAIR, New Delhi
- Sinha AK, **Singh Smriti**, Masto RE, Verma Ravi, Anguselvi VA, Ram LC, Removal of Phosphorus from aqueous solution using lignite fly ash published in *Bharatiya Vaigyanik evam Audyogik Anusandhan Patrika*, 19(2), Dec., 2011, 183-187, NISCAIR, New Delhi
- “Potential of Indian Fly ashes as Soil Ameliorant: State-of-the-Art”. L.C. Ram, **Smriti Singh**, RE, Masto, SK Jha, RC Tripathi, AK Sinha, NK Srivastava, VA Selvi. *25<sup>th</sup> International Conference on Solid Waste Technology and Management Philadelphia*, PA U.S.A. March 14 - 17, 2010. pp 710-721.
- **Smriti Singh**, R. E. Masto, L.C. Ram, A.S. Raghuvanshi, 2008. Fly ash: a solution to soil incrustation, *Proc. National Seminar on Environmental Issues on Geotechniques & Mineral Industry*, 4-5 April 2008, BIT Sindri, Dhanbad, p. 386-396.

## Annexure 2

### Book Chapter

“**Trichomes and Stomata**” written for developing E-content for undergraduate course for National Mission on Education Information Communication Technology (NME-ICT) ([www.vle.du.ac.in](http://www.vle.du.ac.in))