




**INSTITUTE OF HOME ECONOMICS**  
**UNIVERSITY OF DELHI**



Name	Dr. Mamta Singhal		Photograph
Designation	Professor		
E-mail	mamta.singhal@ihe.du.ac.in		
Educational Qualifications: M.Sc.(Physics) M.Ed, M.Phil and Ph.D( Education)			
Teaching experience: 20 Years ( Including B.Ed. and B.El.Ed. Programs)			
Subjects/Papers Taught  Core Natural Science, Pedagogy of Natural Science, Pedagogy of Environmental Studies Practicum: Material Development and Evaluation, Internship			
Awards received			
Research Interest/Specialization  Science Education, Teacher Education, Assessment, Indian Knowledge Systems			
ORCID No. 0000-0001-9677-2969			
Research Projects			
Title	Funding agency/organization	Duration of Project	
Facilitating Constructivism in Govt. run primary schools in Delhi	ICSSR	3 years	

**Research papers since 2010 (APA format)**

Singhal,M.(2015). Scientific literacy for all- challenges to a dream. *International Research Review*. 4(3),40-46

- Singhal, M.(2015).RTE in India: Challenges after 5 years journey . *Jamia Journal of Education*. 2(1),138-143
- Singhal, M. (2015). Scientific Literacy for All: Challnges to a dream. *International Research Review*. 4(3).
- Singhal, M.(2015). Preservice Elementary Teachers' Understanding of content and Nature of science. *Education and Pedagogy*,VII(1-2), 23-32.
- Singhal, M.(2017).Representation of Nature of Science In pre-service teacher Education program. *Journal of Indian Education*, vol XLII(4)
- Singhal, M.(2017).Understanding of NOS among Pre-service Teachers and Teacher Educators. *Journal of Indian Education*, Vol XLIII(1)
- Singhal, M.(2020). Research trends in nature of science- Analysis and Implications *Journal of Indian Education*
- Singhal, M.(2021). Pedagogical learning resources used by science teachers during covid -19 pandemic. *Towards Excellnce*, 13(2).
- Singhal, M. (2021). गणित शिक्षण में मूर्त सामग्री आधारित खेलों का विश्लेषण . *Towards Excellence*, 13 (3). 537-543.
- Singhal, M.(2021). Undergraduate Science Students' Conceptions of Nature of Science. *Education India Journal: A Quarterly Refereed Journal of Dialogues on Education*, 278-2435,10(4).
- Singhal, M. (2021). Primary School Children's Ideas about Plants and use of Constructivist Approach. *Journal of Indian Education*,122-134, XLVII(3).
- Singhal, M. & Gulati, N. (2022). Women in Science as role models for promoting gender equality. *Towards Excellence*.14(21).
- Gulati, N. & Singhal, M. (2022). Facilitating Constructivism in EVS: A Study of Select Delhi Government Primary Schools. *Education India Journal: A Quarterly Refereed Journal of Dialogues on Education*, 278-2435,11(1).
- Singhal, M.& Wadhwa, M.(2022). Vision of Science Education in National Education Policy-2020. *Voice of Teachers and Teacher Educators*, 59-68, XI(1)

#### Books

Baweja, B.&Singhal,M.(2022). *Science Education: Teaching Learning and Assessment*. Paragon International Publishers.

#### Book chapters

- Singhal, M. (2012). Dealing with Children's misconceptions: Assessing the effectiveness of a constructivist approach, In the book (Ed.) *Emerging Issues and challenges in Education*
- Singhal, M. (2016). Linking Early Childhood Education with primary grades. In the book (Ed.) *learning and pedagogy*. Global publications, New Delhi.
- Singhal, M. (2019). An STS approach to teaching in middle schools. In the book (Ed.) *Inclusive Education: Issues, Challenges and Possibilities*, VishvVigyan Prakashan, New Delhi.

### Workshops and Conferences

- Resource person at the workshop on 'Development of Competence building for Elementary Teacher Educators' at School of Education, Jamia Millia Islamia. (2016)
- Resource person in the faculty development program for Meghalaya teachers organized by RRC (May 2017)
- Resource Person/ Penalist in the National Webinar, "Perspectives in Science Education" organized by C.I.E on 20 Feb 2021.
- Resource Person on the topic "Vision of Science in NEP-2020" in the webinar organized by Aditi Mahavidyala, Delhi University on 28 Feb 2021.
- Resource person on the topic "Science in Ancient India" in the webinar organized by Aditi Mahavidyala, Delhi University on 28 Feb. 2022.
- Session chairperson in the National conference on learning organized by Lady Irwin College on 2 Dec. 2023 on the theme "Recent trends in research methodology across disciplines".
- Speaker on the topic "Assessment beyond textbooks" at the International Conference for Global Partnerships organized by *Dextress* and *Mapmystudy*.
- Speaker in the panel discussion on the theme "Empowering Horizons: Women in Science" at Aditi Mahavidyalaya, Delhi University on 19 January 2024.
- Speaker on the topic "Bhartiya Gyan Parampara in Teacher Education" at the International Conference organized by Vivekanand Global University, Jaipur on the theme "Anubhuti: A journey through Indian knowledge systems" on 26-27 April 2024.

### Association with Professional Societies

Life membership of Comparative Educative Society of India (CESI)  
 Life membership of CASTME (Asia)  
 Life membership of Sangam Foundation