




INSTITUTE OF HOME ECONOMICS
UNIVERSITY OF DELHI



Name	Dr. Mamta Singhal	
Designation	Professor	
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Phone	9818614138	
Educational Qualifications: M.Sc.(Physics) M.Ed, M.Phil and Ph.D(Education)		
Teaching experience: 23 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		
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)
- Singhal, M. (2025). Indian Knowledge Systems: Relevance and Integration in Modern Education. *Jamia Journal of Education*. 115-122,11(2).

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*, Vishv Vigyan Prakashan, New Delhi.
- Singhal, M. (2025). Knowledge and Existential Concerns in Indian Thought: Towards a Liberating Way of Life. In the book (Ed.) *Handbook of Positive Psychology and Indian Thought Systems: Transforming Education for Happiness and Well Being*. Springer.

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.
- Key note speaker at international conference (10-12 June, 2024) organized by Himalayan Management College, Kathmandu and ICERT on the topic, "Indigenous knowledge and sustainable development", Talk delivered on 11 June 2024.
- Speaker at national seminar (29-30 Jan 2025) organized by Dr. Parshuram Mishra Institute of Advanced Studies, Sambalpur, Odisha. Talk was delivered on 30 Jan 2025 on the topic, Gender Responsive Pedagogy for an Inclusive Classroom.

Participation in Summer Institutes/ Refresher /Reorientation Courses

- UGC-ASC Orientation Course, 14th April-13th May 2011, Jamia Millia Islamia.
- UGC – ASC Refresher Course, 17th May -6th June 2010, Jamia Millia Islamia.
- UGC- ASC Refresher course, 11th April -3rd May 2014, Jamia Millia Islamia.
- Refresher course on Research Methods in Education (ARPIT) conducted by MHRD, May 2019.
- Completed FDP on "Development of Teacher's E-kit and MOOCs in the four quadrant format of e-content" Conducted by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi. (12-12 September 2020)

- Faculty development on “ Indian Knowledge Systems: Revisiting Indian Cultural and Literary Traditions” conducted by MMTC center, NIEPA and Shyam Lal College, Delhi University. (24-29 June 2024)
- Certificate course of 3 months duration on Hindu Philosophy (Study of Darshan) conducted by Bhisma School of Indian Knowledge System. (May to July 2024)

Association with Professional Societies

Life membership of Comparative Educative Society of India(CESI)

Life membership of CASTME (Asia)

Life membership of Sangam Foundation