

Name: Dr. Kavita Sharma
Designation: Professor
Qualification: M.Sc. (Hons. Sch.) Chem., Ph.D. (Chem.),
B.Ed., Diploma in Environmental Education (MoEF&COL)
Area of Specialization: Environmental Education, Elementary Education, Chemistry



Experience:

23 years of experience in research, teaching, developmental and training activities after Ph.D. in science education, chemistry and elementary education.

Major Contributions:

Research Studies

1. (2017); Green School Practices on ESD: A case study; NCERT; New Delhi
2. (2016-17) Trends in Environmental Education: An Educational Survey
3. (2016) Formative Evaluation of RMSA In-Service Teacher Training; NCERT-TCA- Lead researcher
4. (2016) Review of the CCE Programmes of the States and UTs – Coordinator
5. (2016) Case Studies of Good Practices on Greening of Elementary Schools; Coordinator
6. (2016) Curricular Intention, Teachers' Comprehension and Curricular Transaction of Contemporary EVS Text Books: A Study, ERIC, NCERT; Co-Coordinator
7. (2016) Review of the bridge course material in science prepared by SSA J &K
8. Sharma Kavita (2016) A Study of Good Practices on greening of Schools ; NCERT; http://www.ncert.nic.in/departments/nie/dee/publication/pdf/Green_School_Report.pdf
9. (2015 -16) Review of the MDM norms of nutrition; MHRD
10. (2015) Review of Activity Based Learning as a means of Child Friendly Education' a Multi-State Review of the ABL programme by UNICEF, Member of the Advisory Committee
11. (2015) Review of the CCE Programmes of the States and UTs
12. (2015) Review of CCE Margdarshika of Madhya Pradesh, SCERT, MP
13. (2014) A study on Programme Evaluation of CCE Programme of Chhattisgarh and Mizoram States,
14. (2014) Relooking of the National Focus Group on; Teaching of Science, Habitat And Learning and Assessment & Evaluation
15. (2014) Review of the curricular material in EVS of Haryana State-2014, Coordinator
16. (2014) Field Trial of Learning Indicators, Member
17. (2014) Quick Analysis of Curricular material of States, - Member
18. (2014) Review of the NCERT curricular material for the school safety guidelines of National Disaster (NDMA)- Member

Research papers/Articles

1. Silyl -Nitrogen compounds, III, Synthesis and characterization of Pentasila-Phospha and Pentasila-arsa-pentazenes, Phosphorous, Sulfur and Silicon, (1995), Vol.107, pp-189-195.
2. Silyl-Nitrogen compounds, IV, Reactions of Pentasila-phospha-pentazene with alcohols and carboxylic acids, Phosphorus, Sulfur and Silicon, (1997), vol.126, pp-101-110.
3. Silyl-Nitrogen compounds, V, Reactions of Pentasila-phospha-pentazene with alcohols and carboxylic acids, Phosphorus, Sulfur and Silicon, (1997), vol.126, pp-101-110.
4. Silyl-Nitrogen compounds, VII, Reactivity of Pentasila-phospha-pentazene towards group IV halides, Indian Journal of Chemistry, Vol.37A, August (1998), pp-691-695.
5. Silyl-Nitrogen compounds, VIII, Reactions of Pentasila - phospha- pentazene with some group V derivatives, Indian Journal of Chemistry, Vol.37A,October (1998), pp-887-890.
6. Silyl-Nitrogen compounds, IX, Reactions of Pentasila-phospha-pentazene with group VI and VII compounds, Indian Journal of Chemistry, Vol.37A, May (1999), pp-423-426.
7. Sharma Kavita And Patel. M.; (2007); 'Science Laboratory at Secondary Level –A comparative study of availability and its usage in the JNV and SC/ST school teachers' in the Journal of Science Education, ISSN 0972 5060, NCERT.
8. Sharma Kavita; (2009) Environmental Education at School Level: Issues at Glance, the Journal of Indian Education, pp- 111, Vol. XXXV, Nov. 2009. ISSN 0972-5628
9. Sharma Kavita; (2012); 'Common Minimum programme in Kendriya Vidyalayas' , Vol. XV, No. 1,2, January and April 2010, The Primary Teacher, NCERT, (the issue came out in 2012) (ISSN 0970-9282)
10. Sharma Kavita; (2012) 'Teaching Learning in EVS through Integrated Approach in Early Grades: Perceptions and Awareness of Teachers', The Journal of Indian Education, NCERT, August 2012. (ISSN 0972-5628)
11. Sharma Kavita; (2013) Environmental Awareness in Early Grades, The Primary Teacher: NCERT, Vol. 2, (ISSN 0970-9282)
12. Sharma Kavita; (2013) Paryavaran Adhyayan Ki Pathyaputken Aass Pass aur Gender Samvedansheelta: Prathmik Shikshak, NCERT, October 2013, ISSN 970 9312
13. Sharma Kavita; (2014), Paryavaran Adyayan Aur Ekikrit Approach; The Prathmik Shikshak, NCERT, 38(2), 5-8. ISSN 0970-9312.
14. Sharma Kavita; (2014), Pathyapustkon Se Pare Seekhna Seekhana, Prathmik Shikshak, NCERT, 38(3) 7-12. ISSN 0970-9312.
15. Sharma Kavita; April (2015), Learning Outcomes and Learning Indicators: Shift in Indian Elementary Education; The Online Journal of New Horizons in Education; ISSN 2146-7374, Vol.5(2)23-29. <http://docplayer.net/4191817-The-online-journal-of-new-horizons-in-education-volume-5-issue-2-april-2015.html>
16. Sharma Kavita; (2015), Framework For Evaluation of CCE Programmes In India, Galaxy International Interdisciplinary Research Journal; ISSN 2347-6915 Vol.3 (8)40-48. <http://internationaljournals.co.in/pdf/GIIRJ/2015/August/7.pdf>

17. Sharma Kavita; (2015), Challenges in Understanding and Transacting Contemporary EVS Textbooks, The Primary Teacher; ISSN 0970-9282 40(2).
18. Sharma. Kavita (2016) CCE: A Support Or Challenge To RTE, Readings In Educational Developments Series 2: Education and Empowerment, Thomson Press, Chapter 10, Pp 113-122 (ISBN: -978-93-85445-06-4)
19. Sharma Kavita; (2017), CCE Programme of states and Union Territories in India: A Review; Journal of Indian Education; ISSN 0377-0435 (3) (Print) 0972-5628.
20. Kaur.G. and Sharma Kavita (2017) :Curricular Intention, Teachers' Comprehension and Transaction of EVS Textbooks: A Study;). Indian Educational Review; ISSN 0019-4700 55(1) (Print), ISSN 0972-561X (online) ; 55(1) 118-124
21. Sharma Kavita; (Jan. 2018), Research Trends in Environmental Education, A Research Review (2000-2016). Indian Educational Review; ISSN 0019-4700 57(1) (Print), ISSN 0972-561X 57(1) (online)

Textbooks and Resource Books:

1. Sharma Kavita; (2017), Learning Outcomes at Elementary Stage; ISBN 978-93-5007-785-6, NCERT, New Delhi, Convenor, Author of Preamble, Learning Outcomes in EVS.
2. Sharma Kavita; (2017), Towards A Green School: Resource Book on Education for Sustainable Development for Elementary Schools; ISBN 978-93-5007-835-8; NCERT, New Delhi.
3. Sharma Kavita; (2017), Harit Shala Ki Ore; Resource Book on Education for Sustainable Development for Elementary Schools, (Hindi Version) ISBN 978-93-5007-835-8; NCERT, New Delhi.
4. Sharma Kavita (2017) 'Simmi's Journey Towards Cleanliness'; Supplementary Material for Primary Stage, lead author, coordinator, ISBN 978-93-5007-848-8.
5. Sharma Kavita, (2015) CCE in Environmental Studies, CCE Package at the Primary level, NCERT, ISBN No.978-93-5007-309-4 www.ncert.nic.in.
6. Unit 5: Block 2, Food; (2014) Pedagogy of Environmental Studies, A Training Package on Certificate Programme for Professional Development of Teachers (CPPDT), ISBN No. 978-81-266-6770-3, pa24-37, IGNOU, New Delhi.
7. Sharma Kavita, (2014), Curricular Expectations and Learning Indicators in EVS at the Elementary Stage, NCERT, ISBN No. , www.ncert.nic.in.
8. 'Pustkon Se Pare Hamara paryavarn , An Activity Bank in EVS' by NCERT (2013)- Lead Author, Coordinator, (ISSN 978-925007-209-7)
9. Chapter 3, entitled 'Aims of Learning Physical Science' (2013) in the Textbook for B.Ed. Pedagogy of Science (ISBN- 978-93-5007-224-0), NCERT
10. Revised Manual-(2013) 'Save Our Children, Let's Ban Corporal Punishment: Treat Children with Love, Respect and Dignity', NCERT, Team Member
11. Meri Duniya-(2012), EVS Textbook of Rajasthan State, India Class III
12. Meri Duniya-(2012), EVS Textbook of Rajasthan, Class V

13. Training package for the Primary teachers of North-Eastern Region-(2011), Team leader of the EVS Group and author, contributed two modules and finalized the group's work,
14. Regional Workshops on Evolving Workable Strategies to Abolish Corporal Punishment, (2012), www.ncert.nic.in,
15. Chapter on 'Role of Visuals in EVS textbooks'-(2012) in the Teacher's Handbook in EVS
16. Skills in Environmental Studies through Language and Mathematics in Early Grades' (2009) Lead Author and Coordinator (ISBN 978-81-7450-980-2).
17. Sharma Kavita (2007) chapter on *Chemical Kinetics* in the textbook of Chemistry NCERT, (ISBN- 81-7450-648-9)
18. An author in Textbook of Environmental Studies 'Looking Around' (2006-08) at the primary level (ISBN No.-81-7450-664-0).
19. An author in Textbook of Chemistry (2006-08) at Sr. Secondary Level (ISBN- 81-7450-648-9).

Other Developmental Work

- Coordinator and one of the author of the online course in Environmental Studies for teachers at primary level. (2018-19)
- Coordinator and the author of CCE Guidelines under RTE act (2018)
- Coordinator and one of content developer in E-content of Environmental Studies for teachers and students at the primary level. (2018-19)
- A study of Comprehensive and Continuous Evaluation of the States and UTs. (2015-16)
- Learning Indicators and Learning Outcomes: classroom example by NCERT for the section of Environmental Studies (2015), Academic Coordinator and Script Writer <https://www.youtube.com/watch?v=sB8Myn-Pgig>
- Review of Comprehensive and Continuous Evaluation Programmes of the States and UTs. (2014-15)
- Programme Evaluation of Comprehensive and Continuous Evaluation of Chhattisgarh and Mizoram. (2013)
- Contributed as an author in the Teacher's Handbook in EVS. (2013)
- An author in development of guidelines under **Curriculum and Evaluation Procedures under section 29** in the context of the RTE Act 2009. (2012)
- Contributed as a resource person in development of **science kit at the primary and upper primary level**. (2008)
- Developed material in chemistry at the sr. sec. stage for the website **SAKSHAT** Education Helpline- a pilot project of MHRD as a member of the content Advisory Committee. (2006)
- Contributed a self-learning module entitled, '**Matter**' for the teachers in science at upper primary level, under PAC programme 15.05 (2005-06).
- Contributed in the development of **teachers' guide for EGS & AIE** volunteers. (2006)

- Coordinated the programme for **Development of low cost teaching aids in science at the upper primary level.** (2004)
- Contributed as an author in the book entitled, '**Teaching Science: A Resource Book for teachers at the secondary stage**' (2002-03).

Abstracts

1. Organosilicon Stabilized Heteroatom Incorporated Polyazenes, National Scientific Committee of X ISOC, August 1993.
2. Symposium on Modern Trends in Inorganic Chemistry at Indian Institute of Science, Bangalore, 1993.
3. Synthesis and reactivity of Pentasila-Phospha-Pentazene IX Annual National Symposium, March 1996, at the department of Chemistry, Punjab University, Chandigarh.
4. Inorganic Phosphapentazene, Sixth one day Annual Symposium, Feb, 1993, dept. of chemistry, Punjab University, Chandigarh.

Extension

- The Primary Teacher Journal –2016 Onwards- Reviewer
- Coordinator for the Southern Region in SSA Cell (March 2013 onwards)
- Regional Workshops on Capacity Building of States on QMTs 2006 onwards
- Analysis of the Data on QMTs and sending feedback to the States 2006-2012
- Appraisal of the SSA plans of different States and UTs – 2005 onwards
- Participation in PABs of SSA at MHRD- 2005 onwards
- Participation in PABs of MDM at MHRD- 2005 onwards
- Coordination and Participation in NRGs- since 2005
- Participation in Executive Committee of SSA in States

Member of the different Committees:

1. Member of the Expert Committee on Mid-day Meal constituted by the MHRD, India. (2014)
2. Participation in Steering Committee of MDM, MHRD as a representative of director, NCERT, (2006-2012)
3. Member SSA Cell (2008 onwards)
4. Member of the Editorial Board of the Journal The Primary teacher at NCERT; New Delhi and still as a reviewer (2005-15)
5. Member of the Committee Against Sexual Harassment (CASH) at NIE, NCERT, (2015 onwards)
6. Member of the School Management Committee, Kendriya Vidyalaya, Tagore Garden, New Delhi. (2014 Onwards)
7. Nodal Member of the Environmental Cell at NCERT

Teaching/Training

- Teaching pre service courses of B.Ed. and B.Sc. B.Ed. at RIE.
- Teaching graduate courses, teaching sr. sec. classes.
- Resource person for various in service training programmes at elementary, secondary and senior secondary levels.
- Capacity Building in Programme Evaluation for DRCCs, SIEMAT, UP (19-21 Feb and 24-26 Feb. 2014)
- CPPDPT for KV Teachers – Delhi- 2014- three days
- Training of PGTs in Chemistry at Dept. of Non Formal Education and Teacher Training department, Jamia Milia Islamia (2014)
- Training of Master Trainers working in SC/ST concentrated areas on Project Based Learning , DESM, NCERT- 2014
- Orientation of Secondary and Senior Secondary Science Teachers under RMSA, Panjab - July, 2014, at Chandigarh
- 2014 and 2015 Orientation of the DIET faculty for Environmental Education under the programme organised by the EOSE cell at NCERT
- 2015, In-service Training Programme for PRTs of KV at KV, Tagore Garden
- 2015 In-service Training Programme for PRTs of KV, Gurgaon
- 2016- Capacity Building of Secondary Stage Teachers of SC/ST concentrated Blocks of Jharkhand and Chattisgarh on project based learning in science
- Evaluated Ph.D. Thesis in Elementary Education, Silchar University, Assam.
- Evaluated Ph.D. Thesis in Science Education at Jamia Milia Islamia University, New Delhi.