




## Faculty Details proforma for DU Web-site

|   |            |  |               |                  |              |   |
|---|------------|--|---------------|------------------|--------------|---|
| <b>Title</b>  | <b>Dr.</b> | <b>First Name</b>  | <b>Rakesh</b> | <b>Last Name</b> | <b>Kumar</b> | <b>Photograph</b>   |
| <b>Designation</b>  |            |  |               |                  |              |  |
| <b>Address</b>  |            | 494-C, SHIVAJI GALI, EAST CHHAJU COLONY, SHAHDARA, DELHI - 110032          |               |                  |              |   |
| <b>Phone No</b>   |            |  |               |                  |              |   |
| <b>Residence</b>  |            |  |               |                  |              |   |
| <b>Mobile</b>   |            | 9873445938   |               |                  |              |   |
| <b>Email</b>  |            | Rakesh.sam21@gmail.com   |               |                  |              |   |
| <b>Web-Page</b>   |            |  |               |                  |              |   |
| <b>Educational Qualifications</b>   |            |  |               |                  |              |   |
| <b>Degree</b>   |            | <b>Institution</b>   |               |                  | <b>Year</b>  |   |
| Ph. D.  |            | Faculty of Education, University of Delhi                                  |               |                  | 2013         |   |
| M. Ed.  |            | Faculty of Education, University of Delhi                                  |               |                  | 2002         |   |
| M. Sc. (Physics)  |            | Dept. of Physics, Faculty of Natural Sciences, Jamia Millia Islamia, Delhi |               |                  | 2001         |   |
| B.Ed.   |            | Faculty of Education, University of Delhi                                  |               |                  | 1999         |   |
| B.Sc.   |            | Shayam Lal College, University of Delhi                                    |               |                  | 1998         |   |
| <b>Career Profile</b>   |            |  |               |                  |              |   |
| <p>Prior to joining Dept. of Education University of Delhi, had around 15 years of experience in school teaching; teaching in B.Ed. college of University of Delhi and in B.El.Ed. Colleges of University of Delhi that include around six years in School and around eight years' full time experience in teacher education. Worked in Educational Administration for more than one year at NIOS (Autonomous Institution under MHRD, Govt. of India).</p>  |            |  |               |                  |              |   |
| <b>Administrative Assignments</b>   |            |  |               |                  |              |   |
| <p>Worked as Assistant Director (Capacity Building Cell) for more than one year at NIOS (Autonomous Institution under MHRD, Govt. of India).</p>  |            |  |               |                  |              |   |
| <b>Areas of Interest / Specialization</b>   |            |  |               |                  |              |   |
| <p>Science Education, Computer Assisted Learning, Educational Planning, Policy and Administration</p>   |            |  |               |                  |              |   |
| <b>Subjects Taught</b>  |            |  |               |                  |              |   |
| <p>Taught mathematics and science to 6<sup>th</sup> - 10<sup>th</sup> grade students at School Level, Core Natural Science, Basic Ideas in Education, and Material Development etc. at B. El. Ed. And in B. Ed. Teaching assignments included teaching of theoretical portion, guiding in project work, practical, experiments, activities, achievement testing and reporting related to Pedagogy of Teaching Physics, Pedagogy of Integrated Sciences and Psychology Practicum, supervision of school experience of pre-service teachers, Contributed to the life of college through being part of different committees like School Life Experience Program, Student Panchayat, Sports and Physical Activities, College Magazine, Annual Maintenance of College Equipment.</p> |            |  |               |                  |              |   |
| <b>Time table of the subjects taught during the current semester</b>  |            |  |               |                  |              |   |

| S.No. | Subject  | Days                           | Time                                      | Classroom                  |
|-------|--|--------------------------------|---|----------------------------|
| 01    | Environment<br>Education                         | Tuesday<br>Wednesday<br>Friday | 12:25-01:20<br>11:30-12:20<br>02:00-02:25 | B.Ed. 2 <sup>nd</sup> Year |
| 02    | Knowledge,<br>Disciplines and<br>School Subjects | Tuesday<br>Thursday            | 02:00-02:55<br>12:25-01:20                | B.Ed. 1 <sup>st</sup> Year |
| 03    | Tutorial   | Wednesday                      | 12:25-01:20                               | B.Ed. 1 <sup>st</sup> Year |
| 04    | Students'<br>Activities                          | Friday                         | 03:50-04:55                               |                            |

#### Research Guidance

#### Publications Profile

##### Book/s Published

- Writing/ textbook development team of “**Textbook on Pedagogy of Science (Physical Science)**” Part 1 and Part 2 developed by Department of Education in Science and Mathematics, Published by NCERT, Delhi.
- Review team of “**Textbook on Pedagogy of Science (Biological Science)**” developed by Department of Education in Science and Mathematics, to be published by NCERT, Delhi.

##### Details of Research Papers/Articles Published in Journals with ISSN Number

1. Kumar, R. (2015). Vegyanik Sankalpanaon ka “Anya” Sankalpanaon se Pratthakaran: Ek Vishlesh-Nigmanik Upgaman. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(4).
2. Kumar, R. (2015). Vigyan Mein Shiksharthiyon ki Vekalpik Sanrachnaayen. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(2).
3. Kumar, R. (2015). Vigyan Mein Shiksharthiyon ki Vekalpik Sanrachnaon ke Sandarbh mein Computer ke Prayog ki Adharna ka Anveshan. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(3).
4. Kumar, R. (2015). Comparative Analysis of CAL Material Developed by NCERT and PhET on the basis of Expectations of Pre-Service Teachers’ in India. *International Journal of Innovative Education*, 2(2).
5. Kumar, R. (2015). Nature of Researches Done in Computer Assisted Learning: Identifying Focal Areas for Their Classification. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(3).
6. Kumar, R. (2015). Accommodating Teachers’ Encounters and Learners’ Speculations Related to Alternative Frameworks in Science. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(1).
7. Kumar, R. (2015). Learning from Pre-service Science Teachers’ No-Computer or Imaginary Computer Reflective Exercise. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(1).
8. Prabha, S., & Kumar, R. (2015). Teachers’ Opinions on Effectiveness of Continuous and Comprehensive Evaluation (CCE) in India. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(3).
9. Kumar, R. (2015). Understanding Educational Research Designs: A Descriptive Study. *International Journal of Innovative Education (ISSN 2393-8404)*, 2(4).
10. Kumar, R. (2014). Beneficiaries of using Computer Intervention Facilitating Two-Way Communication w.r.t. Traditional Classroom Approaches: A Contextual Review. *International Journal of Innovative Education (ISSN 2393-8404)*, 1(1).
11. Prabha, S., & Kumar, R. (2014). Prospective Science Teachers’ Reflections on the Use of Learning Strands in Developing Lesson Design. In *European Scientific Journal September 2014 /SPECIAL/* (Vol. 1, pp. 121–131). Portugal.
12. Kumar, R. (2014). Characteristics of Desirable Computer Assisted Learning program for Addressing Alternative Frameworks Amongst Learners in Science. *International Journal of Innovative Education (ISSN 2393-8404)*, 1(5).

13. Kumar, R. (2014). Analysing Learners' Reactions and Responses: Study of an Indian Science Classroom Context. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(3).
14. Kumar, R. (2014). Practicing Culture of Science by Encouraging Learners' Attempt to Generate Solutions to Problems. *International Journal of Innovative Education (ISSN 2393-8404)*, 1(2).
15. Kumar, R. (2014). Understanding Teaching-Learning Context in Developing Students' Ideas on "Light." *International Journal of Innovative Education (ISSN 2393-8404)*, 1(3).
16. Kumar, R. (2014). Learners' Ideas on "Soil" and Classroom Implications. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(6).
17. Kumar, R. (2014). Context of Forming Concepts and "Other Concepts": "Electric Current" as a Theme of Weaving Linkages. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(2).
18. Kumar, R. (2014). Understanding Classroom Settings in Indian Context While Topic "Cells" is Taken-Up in Class. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(3).
19. Kumar, R. (2014). Study of Learners' Alternative Frameworks Related to "Rain." *International Journal of Innovative Education (ISSN 2393-8404)*, 1(5).
20. Kumar, R. (2014). Using Computer in Non-Interactive Instructional Mode for Conceptual Change: A Reflective Framework. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278 -1730)*, 3(1).
21. Kumar, R. (2014). Pre-service Teachers Notions about Alternative Frameworks/Misconceptions Amongst Learners in Science. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(6).
22. Kumar, R. (2014). Learners' adequacy in using Computer Assisted Learning in the Classroom. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(6).
23. Kumar, R. (2014). Giving Space to Children's Voices, Experiences and Needs: An Analysis of Pre-service Teachers' Natural Dispositions. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(2).
24. Kumar, R. (2014). Use of Computer Assisted Learning in addressing Alternative Frameworks. *International Journal of Innovative Education (ISSN 2393-8404)*, 1(6).
25. Kumar, R. (2014). Teachers' Dispositions to Assist Learners in Metacognitive Processes. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278 -1730)*, 3(1).
26. Kumar, R. (2014). Factors Affecting Technology Integration for the Construction/Reconstruction of Concepts: A Contextual Review. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(2).
27. Kumar, R. (2014). Need and Significance of Exploring Alternative Frameworks Amongst Learners in Science. *International Journal of Innovative Education (ISSN 2393-8404)*, 1(3).
28. Kumar, R. (2014). Studying Transparency of Object': Classroom Implications from Study of Classrooms. *International Journal of Innovative Education (ISSN 2393-8404)*, 1(6).
29. Kumar, R. (2014). Learners and Their Concepts of "Force." *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(4).
30. Kumar, R. (2014). Validating Language by Modifying the Language as Per Learners' Needs: An Analysis of Science Classroom Context. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(3).
31. Kumar, R. (2014). What are Learners' Thinking While the Topic "Blood" is Undertaken in the Class? *International Journal of Innovative Education (ISSN 2393-8404)*, 1(2).
32. Kumar, R. (2014). Formation of Conceptions and "Other Conceptions" Related to "Food." *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(3).
33. Kumar, R. (2014). Conceptions, "Other Conceptions" and their sites: Specific case of studying "Sources of Energy." *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(6).
34. Kumar, R. (2014). Culture of Science and Scaffolding: A Study of Teachers' Focus on Learners' Individual Explorations. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(1).
35. Kumar, R. (2014). "Mirrors and Lenses": Concept and Conceptual Change in Indian Science Classroom. *Indian Journal of Education Research Experimentation and Innovation (ISSN-22310495)*, 4(5).
36. Kumar, R. (2014). Possible Sites of Alternative Frameworks Related to "Friction": A Contextual Study. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(4).

37. Kumar, R. (2014). Scaffolding Learners to Generate Explanations, Arguments and Models: Taking Indication from Learning Strands Framework. *International Journal of Innovative Education (2393-8404)*, 1(1).
38. Kumar, R. (2014). Studying the Science Learning Contexts While the Topic / Area of Explorations was "UNIVERSE." *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(4).
39. Kumar, R. (2014). Pre-service Teachers' Experiences with Computer Assisted Learning in Their Lives: An Exploration. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(5).
40. Kumar, R. (2014). Promoting Inquiry-Based Activities Across Boundaries of Content: A Review of Technology Integration for "Enabling Interactive Learning Using Computers." *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(1).
41. Kumar, R. (2014). Science Learning Contexts and Network of Conceptions in Reference to the Topic – AIR. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(2).
42. Kumar, R. (2014). Teachers' adequacy in using Computer Assisted Learning in the Classroom. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 4(5).
43. Kumar, R. (2014). Strategies for Identifying Conceptions and "Other Conceptions" Related to "Plant Reproduction." *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(5).
44. Kumar, R. (2014). Teachers' Understanding About CAL Other Similar Terms. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 3(4).
45. Kumar, R. (2014). Studying Learners Alternative Frameworks on "Magnets." *International Journal of Innovative Education (ISSN 2393-8404)*, 1(4).
46. Kumar, R. (2013). Efficacy of CAL in Addressing Alternative Frameworks amongst Learners in Science: An Exploration. *Indian Journal of Educational Research and Administration (ISSN 2229-7162)*, 3(3).
47. Kumar, R. (2013). Issues and Challenges in Designing Science Learning Experiences: A Research Perspective. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 3(2).
48. Kumar, R. (2013). Developing Learners' Ideas and Conclusions VS. Supplying their own! What Does Educator's Intense Disposition Suggest in Classroom Contexts? *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 3(6).
49. Kumar, R. (2013). Gauging Teachers' Tolerance towards Individual Interpretations by the Learners. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 2(5).
50. Kumar, R. (2013). Analysis of Pre Service Teachers' Natural Disposition for Testing Pre-Concepts amongst Learners in Science: An Indian Context. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 2(6).
51. Kumar, R. (2013). Probing the Interplay of Nature of Science with Culture of Science in the Formation of Alternative Frameworks. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 2(5).
52. Kumar, R. (2013). Constructing a Theoretical Framework on Alternative Frameworks Amongst Learners in Science. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 3(4).
53. Kumar, R. (2013). Carefully Designing the Science Activities Appropriate for the Group. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 2(1).
54. Kumar, R. (2013). Giving Opportunities to Learners to Experience Excitement and Interest. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 3(3).
55. Kumar, R. (2013). Accomplishing Learning Intentions in the Science Classroom. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278 -1730)*, 2(2).
56. Kumar, R. (2013). Encouraging Collaborative Learning Environment in Science Classroom. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495)*, 3(2).
57. Kumar, R. (2013). Differentiating "Scientific Concepts" from "OTHER" Concepts: An Analytico-Deductive Approach. *Indian Journal of Education Research Experimentation and Innovation (ISSN-22310495)*, 3(5). <https://doi.org/10.1080/0950069900120507>
58. Kumar, R. (2013). Motivating Non-Participating Learners in Classroom. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730)*, 2(4), 1–8.
59. Kumar, R. (2013). Identifying Design Features of Science Learning Environment: An Extrapolation of Learning Theories, Models and Ideas. *Indian Journal of Education Research Experimentation and*

- Innovation (ISSN 2231-0495), 3(3).*
60. Kumar, R. (2013). An Analysis of Concept Specific Researches in the Formation of Alternative Frameworks. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 2(6).*
  61. Kumar, R. (2013). Nature of Science Framework: Describing its Need, Features and Related Classroom Practices from Research Perspective. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495), 3(1).*
  62. Kumar, R. (2013). Catering to the Needs of Highly Active Learners. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495), 3(1).*
  63. Kumar, R. (2013). Attempting to take Learners Along in Conducting Classroom Activities. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 2(3).*
  64. Kumar, R. (2013). Addressing the Alternative Frameworks Amongst Learners: A Study of Classroom Context. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 2(6).*
  65. Kumar, R. (2013). Preconceived Notion of Expected Answer and Teaching-Learning Contexts: An Analysis. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495), 3(5).*
  66. Kumar, R. (2013). The “OTHER” Concept in Learning Science: Its Formation and Related Challenges. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495), 3(6).*
  67. Kumar, R. (2013). An Analysis of Pre Service Teachers’ Natural Disposition For Posing Interpretative Questions to the Learners in Science. *Indian Journal of Experimentation and Innovation in Education, 2(5).*
  68. Prabha, S., Kumar, R., & Jha, A. K. (2013). Learning Strands: Empowering Prospective Teachers for Science Practices in Indian Context. *International Journal for Cross-Disciplinary Subjects in Education (IJCDSE), 4(3), 1205–1212.*
  69. Prabha, S., Jha, A. K., & Kumar, R. (2012). Efficacy of Learning Strands in Science Education: Implications for Pre-service Teachers and Teaching in India. In *Canada International Conference on Education-2012* (pp. 157–162).
  70. Kumar, R. (2012). A Study of Intending Teachers’ Organisation of the Content and Processes of the Science Lesson. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 1(3).*
  71. Kumar, R. (2012). Encouraging Enquiry Approach in the Learners. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 1(6).*
  72. Kumar, R. (2012). Basic Tenets of Constructivism: An Analysis of These Being a Referent for Teaching, Learning and Assessment in Science Basic. *Indian Journal of Education Research Experimentation and Innovation (ISSN 2231-0495), 2(1).*
  73. Kumar, R. (2012). Intending Teachers’ Consciousness for Designing Teaching Strategies as Per Needs of the Learners. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278 -1730), 1(4).*
  74. Kumar, R. (2012). An Exploration of Resources Used in the Science Classrooms. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 1(2).*
  75. Kumar, R. (2012). Nature of Science, Science Assessment and Constructivist Epistemology: An Attempt to Decode the Hidden Mysteries. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 1(1).*
  76. Kumar, R. (2012). Actively Engaging Learners in the Classroom Proceedings. *Indian Journal of Experimentation and Innovation in Education (ISSN 2278-1730), 1(5).*
  77. Kumar, R. (2011). Development of Alternative Frameworks Among Learners in Science: A Reflection on the Learning Theories and Models. *Journal of Teacher Education in Developing Nations (2229-4694), 2(2), 55–61.*
  78. Kumar, R. (2011). Caressing Emotional Well-Being: Preksha Dhayan as Preventive and Remedial Tool. *Indian Journal of Education Research Experimentation and Innovation (ISSN-22310495), 1(4).* Retrieved from [http://ijerei.com/index.php?option=com\\_content&view=article&id=89:caressing-emotional-well-being-preksha-dhyana-as-preventive-and-remedial-tool&catid=40:english&Itemid=84](http://ijerei.com/index.php?option=com_content&view=article&id=89:caressing-emotional-well-being-preksha-dhyana-as-preventive-and-remedial-tool&catid=40:english&Itemid=84)

Publications in the Last one year

Conference Organization/ Presentations (in the last three years)

(A - Organised)

- 1.[7<sup>th</sup>-8<sup>th</sup> Dec. 2017] **“26<sup>th</sup> Meeting of the Regional Directors and Orientation Workshop for Diploma In Elementary Education (D.El.Ed) Program for State Coordinators & State Nodal Officers”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
- 2.[1<sup>st</sup> Sept. 2017] **“Videography of Vedic Mathematics Workshop for Pre-Service Teachers”**, for development of Vedic Mathematics E-Content at NIOS. Organised by Capacity Building Cell, National Institute of Open Schooling.
- 3.[27<sup>th</sup>-28<sup>th</sup> July 2017] **“Media Training/Workshop of Subject Experts for Video Production”** Organised by Capacity Building Cell, National Institute of Open Schooling.
- 4.[28<sup>th</sup> June 2017] **Web-Learning Session on “Creation and Publishing of Tender Enquiries on CPP Portal”** Organised by Capacity Building Cell, National Institute of Open Schooling.
- 5.[25 July 2017] **“Development of Speech to Text Skills in Hindi for Assistant Directors of NIOS, HQ”** of different Departments of NIOS titled **“हिन्दी में कार्य करने में और अधिक दक्षता: 'गूगल वाणी से लेखन' कार्यशाला”** Organised by Capacity Building Cell, National Institute of Open Schooling.
- 6.[30<sup>th</sup> June – 1<sup>st</sup> July 2017] **“Two days face to face Induction and Training Orientation Program for New EDP Supervisors and Officials Handling Data Processing Work at the NIOS Regional Centers”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
7. [20<sup>th</sup> June 2017] **“Development of Speech to Text Skills in Hindi for Section Officers of NIOS, HQ”** titled **“हिन्दी में कार्य करने में और अधिक दक्षता: 'गूगल वाणी से लेखन' कार्यशाला”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
- 8.[17<sup>th</sup> May 2017] **“Training-Cum-Orientation on Online RTI”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
- 9.[27<sup>th</sup> March 2017] **“One Day Induction Program for Coordinators of New AIs/AVIs of NIOS through A-View”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
- 10.[28<sup>th</sup> Feb. 2017] **“Implementation of Office Demonstration/Presentation”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
- 11.[22<sup>nd</sup> Feb. 2017] Special Orientation workshop on **“Creation of Congenial Work Environment with Special Focus on Prevention of Sexual Harassment at Workplace”**, Organised by Capacity Building Cell, National Institute of Open Schooling.
12. [10<sup>th</sup> Dec. 2015] **National Symposium on “New Education Policy-2015: Stakeholder’s Perspective”**. Organised by GRD College of Education, GGSIP University, Delhi in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi.

(B - Contributed as Resource Person)

1. [Oct. 2017- Till Date] Reviewer of Audio Lessons Developed for D. El. Ed. Programme.
2. [Oct. 2017 – Till Date] Content Expert at ‘LIVE’ Mukta Vidya Vani (Web-Radio) Programmes for Untrained Teachers pursuing D. El. Ed. From NIOS.
3. [5<sup>th</sup>-6<sup>th</sup> Dec. 2017] Resource person in ‘Study of students’ difficulties in conceptual understanding of Science at Secondary Stage’, Organized by Department of Education in Science and Mathematics, NCERT.
4. [27<sup>th</sup>- 28<sup>th</sup> Nov. 2017] **KEY SPEAKER/Resource Person** at the **“National Seminar on D.El.Ed. Programme Training of the Untrained Teachers – Various Models/NIOS Implementation – Issues and Strategies”**, Organised by SCERT, Chhatisgarh.

5. [17 Nov. 2017] Made Presentation on Training of Untrained In-Service Teachers in the **“Review Meeting for the Eastern Region”**, Ranchi, Jharkhand, Department of School Education & Literacy, MHRD, Government of India.
6. [10 Nov. 2017] Made Presentation on Training of Untrained In-Service Teachers in the **“Review Meeting for the Southern Region”**, Thiruvanthapuram, Kerala, Department of School Education & Literacy, MHRD, Government of India.
7. [6<sup>th</sup>-7<sup>th</sup> Nov. 2017] National Workshop on Education held at AICTE, HQ, Organised by Deptt. Of School Education & Literacy, MHRD, Govt. of India.
8. [25 Sept. 2017] D.El.Ed. Program on NIOS Community Radio.
9. [6 Sept. 2017] D.El.Ed. Program on NIOS Community Radio.
10. [1st – 2<sup>nd</sup> April 2017] Judge from MHRD side in the 36 hours non-stop digital product development competition ‘SMART INDIA HACKATHON 2017’, Organised by Govt. of India
11. [17th-19th Oct 2016] resource person for reviewing the draft material developed for **“Online Certificate Course in Environmental Studies for primary Teachers”**, Organised by Department of Elementary Education, NCERT.
12. [3<sup>rd</sup> -6<sup>th</sup> Oct 2016] resource person for **“Development of e-material in Environmental Studies”**, Organised by Department of Elementary Education, NCERT.
13. [11th-12th July 2016] resource person for reviewing the draft material developed for proposed **book on “Reflective Teaching”** at elementary level, Organised by Department of Teacher Education, NCERT.
14. [28<sup>th</sup>-29th Mar. 2016] resource person in the research project **to study the syllabi and textbooks in Science and mathematics at the upper primary and secondary levels**. Organised by Department of Education in Science and Mathematics, NCERT.
15. [27-29 Jan 2015] **Judge in CBSE Regional Science Exhibition 2014-2015 on Landmarks in Maths and Science & Information and Communication Technology**, at VVDAV Public School, Vikas Puri, New Delhi.
16. [Sept 2014] **Resource Person in Faculty Development Program for Teachers of GRD College of Education**. Organised By GRD College of Education, GGSIP University, Delhi.
17. [14<sup>th</sup>-15th Feb 2014] **resource person in National Workshop On the theme- “Paradigms of Pedagogy”** in Pestle Weed College of Information Technology, Dehrudun, Uttrakhand.
18. [19th Oct 2013] **panelist** in the seminar cum panel discussion on **“Expectations From Prospective Teachers During School Experience Program”** in GRD College of Education (Affiliated to GGSIP University). Organised by Delhi Sikh Gurudwara Management Committee.
19. [24th Sept 2013] **delivered a talk on “Locating and Addressing Alternative Frameworks in Elementary Classrooms”** organised by Department of Elementary Education, Mata Sundari College, University of Delhi.
20. [14th-15th Sept 2013] **co-chaired** the session on **“Value System in The Emerging Modern Society”** in the Seminar on **“The Crisis of Values: Bahratiya Approaches Towards its Solution”** undertaken by Vidya Bharti at GLT Saraswati Bal Mandir, Nehru Nagar, Delhi.
21. [26th June 2013] **resource person** for In-service Physics Teachers’ workshop on **“Addressing Alternative frameworks of Physics learners”** undertaken by Delhi Sikh Gurudwara Management Committee for teachers of GHP Schools of Delhi.
22. [27th – 28th Feb 2013] contributed to research program entitled **“The study of curriculum at Higher Secondary Stage in Biology, Chemistry, Mathematics and Physics”** undertaken by Department of Education in Science and Mathematics, NCERT.
23. [30<sup>th</sup> Sept 2011] contributed as Resource person in the Panel Discussion on **“Expectations from Prospective**

**Teachers During School Experience Program”** Organised By GRD College of Education, GGSIP University, Delhi.

24. [25<sup>th</sup> – 27<sup>th</sup> May 2011] participated as **Mentor** in the **Workshop for Senior Secondary School Teachers on Building Concepts in Science with Hands-on Activities**. Organised By D S Kothari Center for Research and Innovation in Science Education, Miranda House, University of Delhi.
25. [11th Feb 2011] Resource Person in Faculty Development Program for Teachers of GRD College of Education. Organised By GRD College of Education, GGSIP University, Delhi.
26. [20th to 22nd Oct.2005] Participated as Teacher Guide in Science Center Level Science Exhibition, organized by Dte. of Education (Science Branch), Govt. of NCT of Delhi.
27. [3rd August 2005] Participated in State Level deliberations on the Draft National Curriculum Framework for School Education: Multi-Stakeholder Large Group Bhagidari Workshop, facilitated and designed by Asian Centre for Organisation Research and Development, organized by Dte. of Education, Govt. of NCT of Delhi and SCERT, Delhi.
28. [26th July 2005] Participated in Consultations on National Curriculum Framework Design Team Workshop for Bhagidari, organized by Dte. of Education, Govt. of NCT of Delhi and SCERT, Delhi.
29. [20th July 2005] Participated in Preparatory Workshop for Delhi State Stakeholders Consultations on NCFSE-2005, organized by Dte. of Education, Govt. of NCT of Delhi.
30. [30th May to 3rd June 2005] Resource Person in Science Education for In-Service Teacher Education Program, organized by Management Education and Research Institute (GGSIP University) Delhi.
31. [5<sup>th</sup> to 7<sup>th</sup> Oct. 2004] Participated as **Teacher Guide in State Level Science Exhibition**, organized by *Dte. of Education (Science Branch)*, Govt. of NCT of Delhi.
32. [5<sup>th</sup> to 31<sup>st</sup> Jan. 2004] Participated as Teacher resource in **SCHOLAR, Moving Science Education into the 21<sup>st</sup> Century, An Online Learning Program**, jointly presented by *British Council and Dte. of Education*, Govt. of NCT of Delhi. Project by *Heriot Watt University, Scotland*.
33. [21<sup>st</sup> to 23<sup>rd</sup> Jan 2004] Participated as **Teacher Guide in State Level Science Exhibition**, organized by *Dte. of Education (Science Branch)*, Govt. of NCT of Delhi.
34. [22<sup>nd</sup> to 24<sup>th</sup> Oct.2003] Participated as **Teacher Guide in Science Center Level Science Exhibition**, organized by *Dte. of Education (Science Branch)*, Govt. of NCT of Delhi.

#### Research Projects (Major Grants/Research Collaboration)

Worked as Consultant to United Nations Population Fund (UNFPA) in the project Entitled “Integration of Life –Skills in the B.Ed. Program of Universities of Rajasthan”

#### Awards and Distinctions

- **M. Ed.**
  - University (Gold) Medal for obtaining 1<sup>st</sup> position in Delhi University M. Ed. Exam 2002.
- **M. Sc.**
  - Scholarship for obtaining 1<sup>st</sup> position in M. Sc. (Pre.)
  - 2<sup>nd</sup> position in M. Sc.
- **B. Ed.**
  - ‘OUTSTANDING’ Grade in Teaching of Physics.
  - ‘EXCELLENT’ Grade in Teaching of Mathematics.
- **M.Sc.**
  - Vice–President of Physics Association, Department of Physics, JMI, Delhi.
- **B.Ed.**
  - Participated in Special Camp organized by NSS, Shyam Lal College, University of Delhi.
  - Obtained ‘OUTSTANDING’ grade in Co-curricular activities.



- **B.Sc.**
  - Coordinated National Service Scheme (NSS) of Shyam Lal College for two years.
  - Put in 240 hours of NSS and attended one camp of NSS.
  - Passed NCC 'C-Certificate'.

#### Association With Professional Bodies

Member – Association of Indian Universities, New Delhi.

Member – All India Association for Educational Research, Bhubaneswar.

#### Other Activities

##### (Contributed in Curriculum/Textbook Development at National Level)

1. [Feb. 2017 – Till Date] Coordinator for Indian Culture and Heritage Paper Being Developed by NIOS.
2. [Oct. 2017 – Till Date] Member of the **National Level Curriculum Committee for development of 'Education' Paper at Senior Secondary Level** Being Developed by NIOS.
3. [4th June 2017 – Till Date] **"Training Course in Open Schooling"** Being Developed by Capacity Building Cell, National Institute of Open Schooling.
4. [6th – 9th Nov 2012] contributed to **"The development of Framework and syllabi for PG Diploma Courses in Biology, Chemistry, Mathematics and Physics Education"** organized by Department of Education in Science and Mathematics, NCERT.
5. [27th – 31st Aug 2012] contributed to the development of **"Training Package in Science and Mathematics for the In-Service Teachers' Professional Development (ITPD) at Secondary stage"** organized by Department of Education in Science and Mathematics, NCERT.
6. [28th – 31st May 2012] contributed to the **Development of Framework and Syllabi for PG Diploma Courses in Biology, Chemistry, Mathematics and Physics Education** . Organised by Department of Education in Science and Mathematics, NCERT.
7. [10th – 17th Feb 2012] contributed as Resource person in the Review of the **"Textbook on Pedagogy of Biological Science (Hindi Version)"** organized by Department of Education in Science and Mathematics, NCERT.
8. [15th – 21th Oct 2011] contributed as Resource person in the development of the **"Textbook on Pedagogy of Science (Physical Science: Hindi Version)"** organized by Department of Education in Science and Mathematics, NCERT.
9. [Feb - March] contributed to the **Development of Textbook on Pedagogy of Science**. Organised By Department of Education in Science and Mathematics, NCERT.

##### (Contributed in International Level Conference)

10. [8-12 July 2014] Paper published as part of AIIC 2nd Annual International Interdisciplinary Conference, Azores Islands, Portugal organized by European Scientific Institute, The University of the Azores, Center for Law and Economic Studies, Ponta Delgada and The Centre of Applied Economics Studies of the Atlantic (CEEApIA), Portugal, EU.
11. [10<sup>th</sup> – 11<sup>th</sup> Mar. 2017] Participated in the International Council for Open and Distance Education (ICDE) International Conference on the theme "Unleashing the potential of ODL - Reaching the unreachable" hosted by Symbiosis Centre for Distance Learning (SCDL) Pune, India.

**(Contributed in National Level Conference)**

12. [21st – 22nd April 2012] *presented a paper entitled “Efficacy of CAL in Addressing Alternative Frameworks Amongst Learners in Science: An Exploration”* at NAAC sponsored National Seminar on Quality Assurance of Teacher Education: Initiatives and mechanisms. Organized by Department of Education, Modern Institute of Technology, Dhalwala, Rishikesh, Uttrakhand.
13. [21st Oct 2009] Presented Ph.D. Colloquia on the topic “Designing Meaningful Learning Experiences in Science” in Faculty of Education, University of Delhi.

**(Refresher/Orientation program Attended)**

[May 2017] Twenty-One Days Refresher Program on ICT in ODL for the Teachers and Academics of IGNOU.

**(Some Other Activities)**

1. [14th Feb. 2007] Obtained Second position in State Level Cultural Competition in Folk Song (Group), organized by Delhi Schools’ Sports and Activities Board, Dte. Of Edn., Govt. of NCT of Delhi.
2. [2006-07] Awarded merit certificate for obtaining First Position in District Level Cultural Competition in Community Song (Group), organized by Delhi Schools’ Sports and Activities Board, Dte. Of Edn., Govt. of NCT of Delhi.
3. [2006-07] Awarded merit certificate for obtaining First Position in District Level Cultural Competition in Folk Song, organized by Delhi Schools’ Sports and Activities Board, Dte. Of Edn., Govt. of NCT of Delhi.