

Name: Prof. Rachna Garg

Designation: Professor (Physics), DESM, NIE, NCERT, New Delhi.

Areas of Interest: Science Education, Educational Technology, Free Electron Laser.

Educational Qualifications: M.Sc (Physics), Ph.D. (Physics) from Department of Physics, Lucknow University; Research Associate (Postdoc) at Department of Physics and Astrophysics, Delhi University.

Educational Awards: Has all through been a merit position holder - at Uttar Pradesh Board and also at Lucknow University. Awarded Chancellor's Medal.

Employment: Department of Physics, Lucknow University; Department of Physics and Astrophysics, Delhi University; Regional Institute of Education, NCERT, Bhopal; Central Institute of Educational Technology, NCERT, New Delhi; Department of Education in Science and Mathematics (DESM), NIE, NCERT, New Delhi.

Work experience:

- **Research:** PI/Co-PI for research projects of NCERT in science education; experience in the field of theoretical as well as experimental Physics at Department of Physics, Lucknow University and Department of Physics and Astrophysics, Delhi University. Has published/presented papers in International and national journals/ conferences in the area of Science Education, Free Electron Laser and Dense Plasma Focus Device.
- **Review:** of Draft NEP and analysis of suggestions received upon it; Analysis of stakeholders suggestions for rationalisation of syllabus (science, physics).
- **Development of Teaching-Learning material:** Member of author teams for various Textbooks and other Teaching-Learning Materials developed by NCERT in areas of Physics, Science, Science education and Teacher training; most recent being Learning Outcomes in Science (for Upper Primary and Secondary stages) & in Physics (for Higher Secondary stage), NISHTHA Package, Alternative Academic Calendar.
- **Development of e-Resources:** Videos in Physics (XII) under PM eVidya, Interactives for NROER and mapped to QR codes of science textbooks at Secondary stage. Earlier developed many video and audio programmes out of which two video programmes got awarded at national level.
- **Training:** Co-ordinator/Resource person for conducting various in-service Teacher Training Programmes organised by NCERT; States and Central agencies; most recent being face to face and online NISHTHA (Elementary), Pilot for NISHTHA (Secondary) in UP, Regional Meets on dissemination on Learning Outcomes.
- **Extension activities:** Coordinated Rashtriya Avishkar Abhiyan activities, Team member for organising 'Jawaharlal Nehru National level Science, Mathematics and Environment Exhibition (JNNSMEE)' for children; 'State level Science, Mathematics and Environment Exhibition (SLSMEE)' for children; and All India Children's Educational Audio-Video Festivals, organized by NCERT.
- **Teaching:** Six and a half years of teaching Physics at Undergraduate level at Physics Department, Lucknow University and at Regional Institute of Education, Bhopal; One and a half years at Postgraduate level at Department of Physics and Astrophysics, Delhi University.
- **Administrative:** Was member of Committee for 'Admissions, Examinations and Liaison with Barkatullah University,' at RIE, Bhopal for two years.