

Curriculum Vitae

Prof. (Dr.) Roohi Fatima



Designation: Professor

Department/Faculty: Department of Teacher Training & Non-formal Education, Faculty of Education

Official Address: Department of Teacher Training and Non-formal Education (IASE)
Faculty of Education,
Jamia Millia Islamia
New Delhi 110025

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Mujeeb Bagh
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New Delhi 110025

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drroohiazam@yahoo.co.in

Date of Birth: September 10, 1962

Date of Joining Jamia: 30th May 1990

Field of Specialisation:

i. Area of Specialisation

- Mathematics Education

ii. Areas of Interest

- Educational Research
- Quantitative Research
- Educational Measurement and Evaluation
- Assessment in Education, and
- School Education

Academic Qualifications:

- | | | |
|---|------|----------------------|
| <input type="checkbox"/> M.Sc. (Mathematics) | 2005 | Jamia Millia Islamia |
| <input type="checkbox"/> B.Sc.(H) Mathematics | 1983 | Jamia Millia Islamia |
| <input type="checkbox"/> SSSC | 1980 | Jamia Millia Islamia |

Professional Qualifications:

- | | | |
|---|------|----------------------|
| <input type="checkbox"/> Ph.D. (Education) | 2003 | Jamia Millia Islamia |
| <input type="checkbox"/> M.Ed. | 1998 | Jamia Millia Islamia |
| <input type="checkbox"/> Advance Diploma in Special Education | 1985 | Jamia Millia Islamia |
| <input type="checkbox"/> B.Ed. | 1984 | Jamia Millia Islamia |

Teaching: Since 1986

Employment Profile:

- TGT Mathematics From 1986-2007
- Guest Faculty (Faculty of Education); 2003-2007
- Assistant Professor: 6th August 2007 – 16th September 2019
- Associate Professor: 17th September 2019 – 16th September 2022
- Professor: since 17th September 2022

The topic of my Ph.D. Thesis:

“Development of Concept Attainment Tests in Mathematics for Elementary Classes”

Courses Taught:

1. Ph.D. Paper; Research Methodology, Course Work since 2020 – 21
2. Ph.D. Paper; Educational Evaluation, Course Work since 2020 – 21
3. Ph.D. Paper; Mathematics Education, Course Work from 2011 – 12 to 2020 – 21
4. M. Phil. (Dissertation); Session 2015 – 17
5. M.Ed. (Elementary Education) Paper; Pedagogy of Mathematics. Session 2009 – 10
6. M.A. (Education) Paper; Pedagogy of Mathematics. Since 2012 – 13
7. M.A. (Education) Paper; Interpretation of Data (Quantitative). Since 2018 – 19
8. M.A. (Education) Paper; Assessment in Education. Session 2020 - 21
9. M.A. (Education) Paper; Statistical and Non-Statistical Analysis of Data. Since 2021 - 22
10. B.Ed. Paper; Teaching of Mathematics. From 2007 – 08 to 2014 – 15
11. B.Ed. I; Mathematics and Its Pedagogy. Since 20014 – 015
12. B.Ed. II Year, Paper; Mathematics and Its Pedagogy. Session 20015 – 16
13. B.Ed. I and II Year, Elective; Measurement and Evaluation. Since 2008 – 09
14. B.Ed. (Special) Paper; Teaching of Mathematics. From 2009 – 10 to 2017 – 18
15. B.Ed. (Nursery) Paper; Teaching of Mathematics. From 2015 – 16 to 2018 – 19
16. B.Ed. Seminar Discussion Session 2008 – 2009
17. Diploma of E.T.E. I-year, Paper; Teaching of Mathematics. Since 2007 – 08
18. Diploma of E.T.E. II-year, Paper; Teaching of Mathematics. From 2007 – 08 to 2017 – 18
19. Diploma of E.T.E. II year. Elective; Child and Society. Session 2007 – 08

Administrative Responsibilities:

1. Deputy Provost, Hall of Girls Residence (Old), Jamia Millia Islamia, New Delhi 25, from August 2019 to July 2021.
2. Assistant Superintendent of Examination, IASE, Faculty of Education since 2014 – 15
3. Convener of Music Club, Cultural Committee, Jamia Millia Islamia, From session
4. 2013 – 14 to 2022 – 23

5. NSS Officer (IASE), Since 2009 – 10
6. Member of Admission Committee of IASE, since 2007 – 08
7. Member of the Examination Committee of IASE, since 2007 – 08.
8. Coordinator of Girls Common Room (Faculty of Education) From 2010 – 11 to 2017–18, since 2020-21
9. Sr. Warden, Begum Anees Kidwai Girls Hostel, Hall of Girls Residence, Jamia Millia Islamia, New Delhi 25, From July 2008 to April 2013
10. Sr. Warden, Miridula Sara Bai Working Women Hostel, Hall of Girls Residence, Jamia Millia Islamia, New Delhi 25, From July 2010 to April 2013
11. Non-Residential Warden, From April 2013 to April 2014
12. Counsellor, National Open School during 2000, 2001, and 2002.
13. Part-Time Faculty for the IGNOU Program Study Centre, IASE, Faculty of Education, JMI, From May 2006 to 2016

Professional Training:

1. Online National Faculty Development Program on *Statistical Analysis of Quantitative Data using Advanced Excel for Research Scholars* organised by the Department of Mathematics, Rizvi College of Arts, Science, and Commerce, Bandra (W), Mumbai held on the 3rd and 4th of June, 2020.
2. One-day National Level Webinar on *Orientation to MOOC via SWAYAM* organised by Centre for MOOC-SWAYAM, Tamil Nadu Teachers Education University, Chennai on 6th June 2020.
3. National Webinar 0.5 on 'SUSTAINABLE DEVELOPMENT IN POST COVID-19 ERA - QUO VADIS' held on 5th June 2020, organised by The Goan Forum for Educational Research Promotion.
4. *Introduction to Geogebra online course* conducted by IT for Change, as a part of its Teachers Community of Learning (TCOL) program, between June 15 and July 15, 2020, with support from the Cognizant Foundation.
5. '7-Day Faculty Development Programme on *Nai Taleem*', Experiential Learning and Work Education in School & Teacher Education Curriculum held from 17th to 23rd November 2018 organised by Mahatma Gandhi National Council of Rural Education, Hyderabad in collaboration with the Department of Teacher Training and Non-Formal Education (IASE), Faculty of Education, Jamia Millia Islamia, New Delhi 25

6. 21st three-week Refresher Course in Education from 10th April to 2nd May 2013 organised by Academic Staff College, Jamia Millia Islamia, New Delhi 110025
7. 7th three-week Refresher Course in West Asian Studies (Interdisciplinary) from 19th January to 10th February 2012 organised by Academic Staff College, Jamia Millia Islamia, New Delhi 110025
8. 92nd four-week UGC Sponsored Orientation Program from 13th April to 10th May 2010 organised by Academic Staff College, Jamia Millia Islamia, New Delhi 110025

Supervision and Guidance for Ph.D. (Awarded)

1. Ms. Chandra Tiwari, *“To Study the Delhi/NCR Secondary School Students Misconceptions in Algebra”* Registered on 10th October 2014 Awarded on 2nd February 2021.
2. Ms. Tapsa Verma, *“To Develop Strategies for Helping Elementary Students in Solving Mathematics Word Problems.”* Registered on 24th September 2013 Awarded in July 2020
3. Ms. Shilpa Jaiswal, *“Mathematical Errors as Learning Opportunities in Mathematics at Secondary Level”*; Registered on 18th December 2012 Awarded on 6th January 2020
4. Ms. Summayya Khan, *“Development of the Strategies of Mathematics at Elementary Level by Applying the Identified Multiple Intelligence”* Registered on 15th October 2014 Awarded on 9th August 2019
5. Mrs. Neelima V.Kamrah, *“A Comparative Study of Students Multiple Intelligence in Terms of Gender and Grade Level in Delhi and Haryana”* Registered in July 2010; Awarded in 2014
6. Mr. Rajive Lal, *“Effectiveness of Classroom Instructional Design with Cybernetic Principle of Learning in Reducing Mathematics Anxiety of Secondary School Students”*, Registered in 2008; Awarded in 2013

Supervision and Guidance for Ph.D. Thesis in Progress

1. Ms. Shahnaz Saifi, *“Development of Concept Map-based Modules for Learning Identified Difficult Concepts in Mathematics at Elementary Level”*, Registered on 8th September 2021
2. Ms. Tashneem Firdause, *“A Study on the Effects of Constructivist Approach in Teaching and Learning Mathematics of Students of Elementary Level of Kampur District”* Registered on 7th September 2021

3. Ms.Nirupama Sharma, “*A Comparative Study of Mathematical Skills of Primary School Children Taught through Art Integrated Approach and Non-Art Integrated Approach*” Registered on 17th December 2021
4. Ms. Mansi Popli, “*Examining Mathematics Discourse in Elementary Mathematics classroom*” Registered on 19th September 2022
5. Tauhid Alam, “*Effect of Techno-pedagogy on Mathematical Competencies and Stereotyped Threat among Secondary School Students*”. Registered on 19th July 2023

Supervision and Guidance for Dissertations at Postgraduate Level (Submitted and Awarded)

1. Ms. Aastha Bhatia, M.A. (Education), Academic session July 2021-2023, *To study the role and effectiveness of online teaching at the secondary school level during the covid-19 pandemic.*
2. Pooja Bhatt, M.A. (Education), Academic session July 2020-2022, *A study on Transaction and Outcome of online learning in Schools: A Case Study*
3. Nisar Ahmad, M.A. (Education), Academic session (2020-22), *A Study of the Impact of COVID-19 Pandemic on the Teaching-Learning Process (TLP) of Mathematics.*
4. Shaifali Panwar, MA(Education) Batch 2017-22, *Inequalities in Education with respect to Inclusive Education: A Comprehensive Study b/w the Government and Private Schools Of Delhi- NCT Region which includes North Delhi, South Delhi, Gurgaon, Ghaziabad”*
5. Rashmi Lata, *A Study of the Relationship between Arithmetical Ability and Academic Achievement of Secondary School Students in Mathematics”*
6. Yogesh Kumar, M.Ed. (IGNOU), Academic session (2018-20) *A Study of Perception of Government School Teachers (Directorate Of Education) Towards No-Detention Policy (NDP) in Northwest District of Delhi*
7. Nazmeen Naaz, M.A. (Education), Academic Session (2018 – 20) *A Study of difficulties faced by students of Elementary Classes in Solving Word Problems*
8. Ritu Raj, M.A. (Education), Academic Session (2018–20) *An Evaluation of Textbooks of N.C.E.R.T. Science Class VI To VIII in the Light of Right to Education*
9. Tarmim, M.Ed. (Special Education), Academic Session (2018 – 20), *A Study of Mathematical Error Committed by Visually Impaired Children in Arithmetic at Primary Level in Special School*
10. Nazia Zaidi, M.A. (IGNOU), Academic Session (2017 - 19) *A Study of Perceptions of Parents Regarding Roles of Playschool.*

11. Tushar Rawal; M. Phil. DES (JMI) (2015-17). *A Study of Students' Understanding of the Concept of Quadrilaterals and Their Relations*
12. Asif Iqbal; M.Ed. (IGNOU), Academic Session: (2014–16) *The effect of geometrical ability and study habit of students on the achievement in mathematics at secondary level in New Delhi*”.
13. Ranjana Kumari; M.A. Education (IGNOU), Academic Session: (2017-18) *A Study of Academic Anxiety of Secondary School Students in Relation to Gender and Social Category*
14. Ashok Kumar Arora: M.Ed. (IGNOU), Academic Session: (2014–16) *A comparative study of Interest Level in Algebra and Geometry of Secondary Level Students*
15. Pooja Ahuja; M.A. (Education), (IGNOU), Academic Session: *The effectiveness of Abacus on Mathematical learning of students of Class V with respect to speed and accuracy in addition and subtraction* Submitted and Awarded in 2019
16. Tanvi Atry; M.Ed. (IGNOU), Academic Session: *A study of Gaps in Algebra Learning: Common Alternate Conceptions, Reasons, and Remediation*, Submitted and Awarded in 2019
17. Prem Lata Singh: M.A. (Education), (IGNOU), Academic Session: *A study to find out the relation between the creativity and academic achievement of 5th class students in mathematics: A case study of District South West Delhi*, Submitted and Awarded in 2019
18. Shahnaz Saifi; M.A. (Education), (IGNOU), Academic Session: “*A Study of Impact of Manipulatives in the Classroom Teaching of Mathematics at Primary Level*” Submitted and Awarded in 2018
19. Aayushi - M.A. (Education, JMI) Academic Session: 2016 – 18: *A study of analyzing oral and written feedback in promoting the learning of mathematic*
20. Marufa Gulnaz: M.A. (Education), (JMI), Academic Session: 2016 – 18: *A Study of Finding the Reasons for Not Choosing Mathematics at Senior Secondary Level by Girls in Nawada district of Bihar.*
21. Sarita; M.A. (Education), (IGNOU), Academic Session: *Perception towards inclusive education among primary school teachers of MCD schools in the west district of Delhi- a comparative study*
22. Asha Rani; M.A. Education-IGNOU- Academic Session: 2012 – 2014, “*A Study of Learner's Difficulties in Understanding of fraction of Elementary Level in Government schools of Faridabad district*”
23. Poonam Yadav, M.Ed. (IGNOU), Academic Session: 2012-2014; “*A Study of Opinion of Government School Teachers Towards Right to Education Act, 2009*”

24. Kunwar Nainital Singh; M.Ed. (IGNOU) Academic Session: 2012-2014; “An analysis of Class XI mathematics textbook from the perspective of students and teachers.”
25. Neha Verma; M.A. Education-IGNOU- Academic Session: *The impact of academic counseling on underachievers with regard to their academic achievement, need-achievement, and study habits; A case study of Noida*, Submitted and Awarded in 2018
26. Mamta Nailwal; M.A. (Education), (IGNOU), Academic Session: 2014 – 2016; *A Study of Teacher’s perception regarding the Importance of Constructivism in Mathematics at lower primary level-* Submitted and Awarded in 2017
27. Deepak Negi; M.Ed. (IGNOU), Academic Session: 2012-2014; *Informal mathematics: Usage by Young Vendors*, Submitted and Awarded in 2016
28. Naajia Zainab; M.A. (Education), (JMI) Academic Session: 2015 – 17: *A study of the impact of language used in mathematical word problems on the efficiency of class VI students in solving them*
29. Aarti Aggarwal, M.Ed, (IGNOU) Academic Session: 2012-2014; *Development of material to foster the Mathematical interest and achievement of standard VIII students in schools of Delhi*”, Submitted and Awarded in 2016
30. Shipra Varuna; M.Ed. (IGNOU), Academic Session: *A Study of Perception of Government School Students Towards Teacher’s Evaluation* Submitted and Awarded in 2017
31. Aarti Sisodia; M.A. Education (JMI) Academic Session: 2013-2015; “*A Critical Evaluation of NCERT Mathematics Textbook of Senior Secondary Stage*” Submitted and Awarded in 2015
32. Mamta Guleria, M.Ed.(IGNOU), Academic Session:2012-2014; “*Effect of Information and Communication Technology (ICT) on the Students' Achievement in Mathematics at Secondary Level*”; Submitted and Awarded in 2014
33. Anita Sharma, M.Ed. (IGNOU), Academic Session: 2012-2014; “*A study of the attitude of teachers and students of government and non-government schools towards continuous and comprehensive evaluation*”. ; Submitted and Awarded in 2014;
34. Rachna Patron, M.Ed. (IGNOU), Academic Session: 2012-2014; “*Effect of Co-operative Learning on Students Achievement in Mathematics at Senior Secondary Level*”; Submitted and Awarded in 2014
35. Teena Khati, M.Ed. (IGNOU), Academic Session; 2011-13; “*A study of the Attitude of Upper Primary School Teachers towards Discipline and Participatory Management*”; Submitted and Awarded in 2013

36. Sandhya Negi; M.A.Education; Jamia Millia Islamia; Academic Session; 2011-13; *“To study the Difficulties of Class VI Students in Solving Word Problems and in Forming Mathematical Expressions”*
37. Ms. Indu, M.Ed.(IGNOU), Academic Session:2011-2013; *“A Comparative Study of the Secondary School Mathematics Examination Papers of the two Educational Boards i.e., Central Board of Education (CBSE) and International General Certificate of Secondary Education (IGCSE) In the light of the major objectives of the said boards”*.
38. Monika Luthra, M.A. (Education); Academic Session; 2010-2012; *“A Study of the Perception of Public School Students about the Implementation of CCE”*
39. Alka Khanna, M.A. (Education)- Academic Session; 2010-2012; *“Study of Perception of Public School Teachers towards CCE”*
40. Arpana Tanwar; M.Ed. (IGNOU), Academic Session; 2010-2012; *“To develop Information and Communication technology-based Self-learning material for Class V learners in Mathematics”*
41. Ms.Aeine Khan, M.A.(Education, JMI) Academic Session: 2009-2011; *“A Comparative Study of Academic Performance of B.Sc.Biosciences Students Among Day Scholars and Hostellers in Jamia Millia Islamia”*. Submitted and Awarded in 2011
42. Ms. Anjali Sahni, M.Ed. II Yr (IGNOU), Academic Session: 2009-2011; *“A Comparative Study of Mathematical Ability of Adolescents (Boys and Girls)”*
43. Ms. Manju Makhija, M.Ed. (IGNOU), Academic Session: 2009-2011; *“A Study of Mathematical Anxiety among Elementary School Students and its Relationship with Mathematic Achievement”*,
44. Ms. Anjum Parveen, M.A. Education (IGNOU), Academic Session: 2009-2011; *“A study of the impact of teaching through Mathematical Laboratory on the achievement of Mathematical concepts at high school level”*
45. Manisha Roy, M.A. (Education)- Academic Session; 2009-2011, *“A study on the effectiveness of the use of Computers and Mathematics Laboratory for Learning Mathematics at Upper Primary Stage”*

Published Work:

Books:

1. Fatima Roohi (2022): *Pedagogical Material in Mathematics-A Handbook for Pre-Service Teachers and In-Service Teachers*: BlueRose Publications, Delhi-ISBN: 978-93-5472-574-6
2. Fatima Roohi (2021): '*Tadresiayat a Riyazi*' (*Pedagogy of Mathematics*): Maktaba Jamia Ltd. New Delhi 110025, ISBN: 978-93-92526-01-5
3. Fatima Roohi (2013): *Concept Attainment Testing in Mathematics*; Global Books Organisation, Delhi-110059; ISBN: 978-93-80570-31-0
4. Fatima Roohi (2007): '*Teaching Aids in Mathematics: A Handbook for Elementary Teachers*', Kanishka Publications, New Delhi

Articles:

5. Fatima Roohi (March 2022): "A Study of Perception of Government School Teachers towards No-Detention Policy (NDP) "International Journal of Social Science and Human Research (IJSSHR) An Open Access Journal, Volume 05 Issue 03 March 2022, ISSN (Online): 2644-0695, Impact Factor: 5.586 - March issue: <http://ijsshr.in/current.php> Article link: <http://ijsshr.in/v5i3/13.php>
6. Fatima Roohi (December 2021): "A Critical Evaluation of NCERT Mathematics Textbook of Senior Secondary Stage", International Journal of Social Science and Human Research (IJSSHR) An Open Access Journal, Volume 04 Issue 12 December 2021, ISSN (Online):2644-0695, Impact Factor: 5.586 - See December issue: <http://ijsshr.in/current.php> Article link: <https://ijsshr.in/v4i12/11.php>
7. Fatima Roohi (August 2021): *A Study of Analysing Oral and Written Feedback in Promoting Learning of Mathematics*, Online Journal of Educational Review, USA, Hills Publication, Vol.5 No.8, August 27, 2021 issue. ISSN Online:2575-7946 <http://www.hillpublisher.com/journals/er/>
8. Fatima R (March 2021): *Pedagogical aspects of Learning about Fractions*, Jamia Journal of Education, An International Biannual Publication, Volume 07, Number 2, Published by Faculty of Education, ISSN 23483490
9. Fatima R (August 2020): '*Use of Concept Mapping as an Innovative Teaching Learning Strategy in Mathematics*, Journal of Indian Education, Volume XLVI, Number 2, August 2020 issue, NCERT-ISSN: 0377-0435(Print)
10. Fatima R (July 2019): '*Cooperative Learning: An Effective Teaching-Learning Strategy in Mathematics*'.Indian Educational Review, July 2019 issue, NCERT-ISSN: 0019-4700 (Print)

11. Fatima R (April 2017): *Mathematization: An opportunity to channelize children's enthusiasm for developing concepts in mathematics*, The Primary Teacher Journal, NCERT, ISSN No 009709282.
12. Fatima R (March 2016): *'Effectiveness of Educational Technology in the Learning of Algebraic Concept of Elementary School Students'*; Jamia Journal of Education, An International Biannual Publication, Volume 2, Number 2, Published by Faculty of Education
13. Fatima R (2007): *'Action Research: A Tool for Improvement of Teaching Learning Problems'*, EDUTRACKS, Hyderabad, Vol.6 No.8, Neelkamal Publications (P) Ltd. ISSN: 0972-9844
14. Fatima R (2005) *'Why Do Children Find Mathematics a Difficult Subject?'* The Primary Teacher, New Delhi Vol.XXX No. 3-4 NCERT Publication.
15. Fatima R (2005): *'Importance of Mathematics in School Education*, EDUTRACKS, Hyderabad, Vol.4 No.12, Neelkamal Publications (P) Ltd.
16. Fatima R (2005): *'Role of Intuition & Logic in Mathematics'*, EDUTRACKS, Hyderabad, Vol.4 No.10, Neelkamal Publications (P) Ltd.

Published in Hindi:

17. Fatima R (2009): An article on *'Conceptual Learning in Mathematics'* in Hindi Published in Bhartiya Adhunik Shiksha, NCERT, Ank January 2009
18. Fatima R (2005): *'Dr. Zakir Husain Aur Humari Shiksha'* (Hindi), Bhartiya Adhunik Shiksha, NCERT, New Delhi.

Published in Urdu:

19. *"Maushrey ki Taraqqi main Riyazi ka Kirdar"* published in Mahnama Khawateen Duniya Monthly, New Delhi, June 2023, ISSN 2581-4826
20. One chapter on Action Research in Mathematics (in Urdu) – in a book titled, 'Action Research, Case Study & Achievement Test' Edited by Dr. Jasim Ahmad in 2015, ISBN: 978-93-85086-38-6
21. A model Lesson Plan of Mathematics (in Urdu) - Published in Tadrees Nama, Academy of Professional Development of Urdu Medium teachers, Jamia Millia Islamia, New Delhi 25

Published in Conference Proceedings/Edited Books

1. *'A Study of Issues of Equity and Social Justice in Teaching and Teacher Education* A two-day International Conference on Changing Landscape of Teacher Education, 4 & 5 March 2020 organised by Department of Educational Studies, Faculty of Education, Jamia Millia Islamia NewDelhi-110025- ISBN: 978-93-87916-71-5
2. *'Pre Service Teachers Attitude towards Inclusive Education'* A two-day International Conference titled "Distance Education and Educational Technology" organised by Centre of Distance and Online Education, Jamia Millia Islamia, December 2020- ISBN: 788194314776
3. *'Analysis of Higher Education through Open Distance Learning in Indian National Education Policies'* - A two-day National Conference on '*Distance and Open Learning: Challenges and Opportunities in Present Scenario*' to be organised by the Centre for Distance and Open Learning, Jamia Millia Islamia, New Delhi, December 2019. ISBN: 978-81-943147-4-5
4. "ICT: A Big Change Agent for Education in General and Mathematics Education in Particular" – A two-day International conference on the theme "Learning Technologies in Education" organised by the Faculty of Education, Jamia Millia Islamia, February 24 – 25, 2015.
5. Performance in Mathematics; A Challenge in Implementing the RTE Act'; A two-day International conference on the theme "Education as a Right across the Levels: Challenges, Opportunities, and Strategies" organised by Faculty of Education, Jamia Millia Islamia, March 10 – 11, 2014.
6. *'Concept Mapping Facilitate Meaningful Learning'* Proceedings of National Conference on Mathematics Pedagogy 10-11 February 2014 *Let's Mathematise...! Lessons from Practice*. E-ISBN 978-93-5156-280-1

Material Prepared:

Involved in NCERT Projects as a member of the development team:

1. Handbook on Action Research for B.Ed. students in Urdu by NCERT in October 2021. ISBN 978-93-91444-26-6
2. Textbook on Inclusive Education for D.El.Ed and B.Ed. students in Urdu by NCERT in March 2021. ISBN 978-81-949859-7-6
3. Development of Teachers' Training Package for KHBV Teachers; Mathematics Teaching of Numbers; Published by NCERT in 2014; ISBN 978-93-5007-265-3
4. Development of Teachers' Training Package for KHBV Teachers; Mathematics Teaching of Geometry; Published by NCERT in 2014; ISBN 978-93-5007-266-0

5. Development of Source Book on Assessment in Mathematics for Upper Primary Stage Published by NCERT in 2013; ISBN 978-93-5007-253-0
6. Textbook on Pedagogy of Mathematics for two-year B.Ed. course; Published in 2012; Published by NCERT in 2013; ISBN 978-93-5007-189-2
7. Development of Exemplar Problems in Mathematics for Upper Primary Stage (Class VII); Published in 2012; ISBN 978-93-5007-208-0
8. Development of Exemplar Problems in Mathematics for Upper Primary Stage; (Class VIII); Published by NCERT in 2012; ISBN 978-93-5007-218-9
9. Preparation of Manual for Mathematics Kit for Upper Primary Stage'; Published by NCERT in 2010
10. Development of Indicators of Learning for Science and Mathematics for Class VIII'
11. Development of a 21-day Training Package for Teachers without a substantial background in Mathematics/Science at the Upper Primary Stage and its use in the Training of Key Resource Persons' (Developed two chapters)
12. Study of effectiveness of the use of computers and the internet on learning mathematics at the Higher Secondary Stage (Developed one chapter)

Involved in NCERT Projects as a member of the development team (under progress):

1. Book on Educational Research (2 Parts) for B.Ed. students in Urdu by NCERT in 2019
2. Handbook on Educational Measurement for M.Ed. students in Urdu by NCERT in 2019

Papers Presented in International/National Conferences:

1. *'Learning about Fractions; Some Misconceptions'* was presented in a Two-day National Conference titled IX National Conference on Mathematics Education organised by RIE Bhopal, from 20th to 22nd, December 2020
2. *'Pre Service Teachers Attitude towards Inclusive Education'* presented at a Two-day International Conference titled "Distance Education and Educational Technology" organised by the Centre of Distance and Online Education, Jamia Millia Islamia, from 10th to 11th, December 2020
3. *"Urdu medium main Riyazi padhne main aane wali pareshaniya- Ek Jaeza"* was presented at a Three-day National Conference (Online) titled Language Pedagogy (in Hindi and Urdu), jointly organised by the Department of Teacher Training and Non-formal Education (IASE), Faculty of Education, Jamia Millia Islamia and Azim Premji University, Bengaluru on October 09 - 11, 2020.
4. *'A Study of Perception of Government School Students Towards Teacher's Evaluation'* presented in a Three-day National Webinar on Teacher Education; Concerns, Challenges,

and Innovations organised by the Department of Teacher Education NCERT, from 18th to 20th March 2020

5. *'A Study of Issues of Equity and Social Justice in Teaching and Teacher Education* A two-day International Conference on Changing Landscape of Teacher Education, 4 & 5 March 2020 organised by Department of Educational Studies, Faculty of Education, Jamia Millia Islamia NewDelhi-110025
6. *'Concept Mapping Facilitate Meaningful Learning'* A three-day International Conference organised by Jamia Teachers Association, Jamia Millia Islamia, New Delhi 25, on 16 – 18 February 2020.
7. *'A Study of the Primary School Teachers' Understanding of Pedagogical Content in Mathematics and their Application in the Classroom'* in Hindi (गणित में प्राथमिक विद्यालय के शिक्षकों की शैक्षणिक सामग्री की समझ और कक्षा में उनके आवेदन का अध्ययन) A two-day National Conference in Mathematics Education Sangoshthi, jointly organised by the Department of Education, DU, and Azim Premji University, Bengaluru on October 11 - 13, 2019.
8. *'A Study of Analysing Oral and Written Feedback in Promoting Learning of Mathematics'*- A three-day 7th National Conference on Mathematics Education organised by the Department of Education in Science and Mathematics (DESM), RIE Ajmer, NCERT Ajmer Unit from 20th to 22nd December 2019
9. *'Analysis of Higher Education through Open Distance Learning in Indian National Education Policies'* - A two-day National Conference on *'Distance and Open Learning: Challenges and Opportunities in Present Scenario'* to be organised by the Centre for Distance and Open Learning, Jamia Millia Islamia, New Delhi, on December 16 & 17, 2019.
10. *'Effect of Cooperative Learning on Students' Achievements in Mathematics at Secondary Level'* is a poster presentation at the MTA Inaugural conference organised for mathematics teachers, educators, and mathematicians at Homi Bhabha Centre for Science Education, TIFR, Mumbai from 3rd to 5th January 2019.
11. *'Connecting Past and Present in Mathematics Education'* - A three-day 7th National Conference on Mathematics Education organised by the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi from 20th to 22nd December 2018
12. *'Perception towards Inclusive Education among Primary School Teachers of MCD Schools'*- A three-day International Conference on Learning 2018 from 28th to 30th September 2018 on the theme 'Learning for Empowerment at the Department of Education, Lady Irwin College, University of Delhi, New Delhi
13. *'Role of Higher Education in Socio-Economic Development of Minority Communities in India'* – A two-day National Seminar on 'Higher Educational Policies for Minorities: Problems and Prospects' organised by SALVATION, an International Humanitarian

Development Agency in collaboration with Maulana Azad Humanitarian Research Foundation on 7th to 8th October 2017.

14. *“Preparing Teachers for Managing Developmental Programmes for the Government Schools of Delhi”* – A two-day International Education Conference 2016 on the theme ‘Teacher Education: Challenges, Opportunities, and Strategies’ organised by Faculty of Education, Jamia Millia Islamia, New Delhi on December 07-08, 2016
15. *“Integration of Mathematics and Craft at Elementary Level”* – A two-day International Gandhi Jayanti Conference 2015 on the theme ‘Education as a Basic Right of Humankind’ organised by Indialogue Foundation in collaboration with the Institute of Advanced Studies in Education, Jamia Millia Islamia, and Gandhi Smriti and Darshan Samiti on 3rd – 4th October 2015
16. Participated as a Discussants on the Topic: ‘Need for Alternative Approaches and Space for Creativity and Innovation’ in a Seminar on “Transforming Pedagogy in India” organised by Indian Institute of Advanced Study, Rashtrapati Nivas, Shimla 171 005; 07-April-2015 to 08-April-2015
17. *“ICT: A Big Change Agent for Education in General and Mathematics Education in Particular”* – A two-day International conference on the theme “Learning Technologies in Education” organised by the Faculty of Education, Jamia Millia Islamia, February 24 – 25, 2015.
18. ‘Mathematics Anxiety: A Kind of Mathematics Learning Experience’- for the National Conference on “---” organised by RIE Bhopal (NCERT Unit) Bhopal, December 21 to 23, 2014
19. ‘Performance in Mathematics; A Challenge in Implementing the RTE Act’; A two-day International conference on the theme “Education as a Right across the Levels: Challenges, Opportunities, and Strategies” organised by Faculty of Education, Jamia Millia Islamia, March 10 – 11, 2014.
20. ‘Concept Mapping as an Effective Teaching Strategy in Mathematics’ A two-day conference on “Lets Mathematics-----Lessons from practices”, organised by Jesus and Mary College, University of Delhi, February 10 – 11, 2014.
21. *“Concept Mapping: An Effective Tool of Teaching-Learning Mathematics”* for the National Conference on “Developing Mathematics Teachers for Quality Learning for All” organised by RIE Ajmer (NCERT Unit) Ajmer, Rajasthan, December 20 to 22, 2013
22. ‘Role of Mathematics in the Development of Society’- National Meet on Celebration of National Year of Mathematics-2012; organised by NCERT, New Delhi, December 20 – 22, 2012

23. 'Lesson Planning of Mathematics', (in Urdu) - Two days seminar cum orientation program for Urdu Medium teachers, organised by Academy of Professional Development of Urdu Medium teachers, June 15 – 16, 2009., Jamia Millia Islamia, New Delhi 25

Invited Talks:

1. A lecture on, "School-Based Assessment" in a *21-Day In-Service Training Programme* for Jamia School Teachers (Prep. to Senior Secondary Stage) at the Faculty of Education, Jamia Millia Islamia, New Delhi from 31st May to 20th June 2022 in an Online Mode on 06.06.22.
2. A lecture on, "Analysing and Interpreting Learner's Results" in a 12-Day Workshop for B.Ed. II Year Students of IGNOU on 03.06.22.
3. A lecture on "Correlation, and Normal Probability Curve " in the online National Workshop on the theme 'Research Methodology and Data Analysis on 26th February 2022, organised by BPS Institute of Teacher Training and Research in collaboration with Bhartiya Shiksha Mandal
4. A lecture on "Analysis of Variance and Covariance" in the online National Workshop on the theme 'Research Methodology and Data Analysis on 27th February 2022, organised by BPS Institute of Teacher Training and Research in collaboration with Bhartiya Shiksha Mandal
5. A lecture on Assessment and Evaluation in the Extended Contact Programme (ECP) for the PGDHE Programme on 17th January 2022, organised in virtual mode by Regional Centre Delhi -1
6. A lecture on Programme Evaluation in the Extended Contact Programme (ECP) for the PGDHE Programme on 18th January 2022, organised in virtual mode by Regional Centre Delhi -1
7. A lecture on the *Aims of Higher Education* in the Extended Contact Programme (ECP) for the PGDHE Programme on 14th January 2022, organised in virtual mode by Regional Centre Delhi -1
8. A lecture on the *Aims of Higher Education* in the Extended Contact Programme (ECP) for the PGDHE Programme on 23rd July 2021, organised in virtual mode by Regional Centre Delhi -1
9. A lecture on *Virtual Visit to an Institution of Higher Learning* in the Extended Contact Programme (ECP) for the PGDHE Programme on 29th July 2021, organised in virtual mode by Regional Centre Delhi -1
10. A lecture on *Understanding Measurement and Evaluation Making Pedagogical Analysis More Meaningful* in a webinar organised by Amity University Uttar Pradesh, Amity Institute of Education, Lucknow Campus on 9th April 2021

11. Two lectures were delivered in a '5-day training program on 'Statistical Methods for the academic and technical persons of NTS-I. organised by NATIONAL TESTING SERVICE-INDIA (A Central Scheme of the MHRD) Centre for Testing & Evaluation (CT&E) H.Q: Central Institute of Indian Languages (CIIL) (Department of Higher Education, Govt. of India) Manasagangotri, Mysore - 570 006, November 6th -10th, 2012
12. A lecture was delivered in a workshop for teachers of Crescent School on March 30, 2009. titled, ' Establishment of Mathematics Lab'
13. Given lectures in various In-service programs for Urdu Medium Primary Teachers titled 'Teaching in Mathematics' in summer and Winter Vacations every year.
14. Lectures on different topics delivered in B.Ed. and M.Ed. (IGNOU) Workshops.

Seminar/conference/workshop organised:

1. Coordinate a ten-day Extended Contact Programme (ECP) for the PGDHE Programme organised from the 13th of January to the 23rd of January 2022, in the virtual mode by Regional Centre Delhi -1
2. Coordinate a ten-day Extended Contact Programme (ECP) for the PGDHE Programme organised from 22nd of July to 31st of July 2021, in the virtual mode by Regional Centre Delhi -1
3. Organised a Hands-on workshop on *Interpreting Drawings: A Tool to understand children* on 29th May 2021 for the students of D.El.Ed. of IASE.
4. Organised a series of lectures (3 lectures) as a part of the NSS Workshop on 7th, May, 10th May, and 13th May 2021 for the students of IASE.
5. A three-day National Conference titled Bhasha Shikshan, jointly organised by the Department of Teacher Training and Non-formal Education (IASE), Faculty of Education, Jamia Millia Islamia, and Azim Premji University, Bengaluru on October 09 - 11, 2020.
6. A three-day National Conference '8th National Conference on Teaching-Learning Mathematics' organised by RIE Ajmer, from December 19th to 21st 2019
7. Organised a 10/7 Day NSS Camp for the students of IASE from 2009 – to 10
8. Twelve days Workshops are organised every year for 1stYear Students of B.Ed. (IGNOU) in the months of May – June, since 2007.
9. A seven-day Workshop organised for 1st Year Students of M.Ed. (IGNOU) from 20th September 2012 to 26th September 2012.
10. A ten days Workshop organised for 2ndYear Students of M.Ed. (IGNOU) from 17th September 2012 to 26th September 2012.

11. A ten days Workshop organised for 2ndYear Students of M.Ed. (IGNOU) from 28th May 2014 to 6th June 2014.
12. Three Weeks In-service Programmes for Mathematics TGTs', organised by Academy for Professional Development Urdu Medium Teachers, JMI,

Invited as Experts

1. Invited as an External Expert for the conduct of the evaluation and viva voce of the MAEDU Programme on the 14th of August, 2021
2. Invited as an expert for video recording of Introduction to Foundational Literacy and Numeracy (FLN) in 'studio Edusat' in CIET, NCERT on 10th August 2021.
3. Invited as an expert for video recording of Module 7 (SBA) and Module 18 (POCSO) in 'studio Edusat' in CIET, NCERT on 2nd December 2020.
4. Invited as a judge for the event, 'Innovatief Leren'- How do I learn Science OR Mathematics? The National Science & Mathematics Festival: Sci – π for Classes VI-VIII, organised by Delhi Public School R.K.Puram on December 29th, 2020.
5. Invited as an External Expert for the conduct of the evaluation and viva voce of the MAEDU Programme on the 4th of November, 2020
6. Invited as an External Expert for M.Phil. Online Viva Voce for a student of Lady Sriram College, the University of Delhi on 22nd July 2020
7. Invited as an External Expert for the conduct of the evaluation and viva voce of the MAEDU Programme on the 16th of January, 2020
8. Member of Review Board for a biannual journal, of the Faculty of Education '*Jamia Journal of Education*' with effect from October 2019.
9. Invited as an External Expert for M.Phil. Viva Voce at CIE, the University of Delhi on 1st August 2019
10. Invited as Judge in Army Public School Shankar Vihar, for the judgement of Mathematics Skit on 19th July 2019.
11. Invited as Judge in Amity Tarang 2018 for the judgment of Mathematics Models on 2nd November 2018.
12. Invited as Judge in Amity Tarang 2017 for the judgment of Mathematics Models on 1st November 2017.
13. Invited as Judge in Army Public School Shankar Vihar, for the judgement of Mathematics Models on 19th July 2017.

14. Nominated as Refereed for a quarterly journal of NCERT '*The Primary Teacher*' with effect from January 2015.
15. Subject Expert for selection of candidates for the post of PRT in Kendriya Vidyalaya Sangathan in 2012 and 2014, 2019
16. Prepare Final Examination Paper for B.Ed.2015: Teaching Mathematics for IP University
17. Prepare Final Examination Paper for B.Ed.: Teaching of Mathematics for Centre of Distance Learning, Jamia Millia Islamia, since 2014
18. Prepare an Objective-type Question Paper for the subject of Statistics for EdCIL (India) Limited (A Government of India Enterprise) in 2015
19. Expert for Viva Voce, M.Ed. and M.A. (Ed.) dissertations of IGNOU since 2015.

Research projects:

1. **Title of the Study/Project:** *Development of material for activities based on the School Internship Programme in Hindi*
 - **Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia
 - **Grant Amount:** Budget Proposed: Rs. 1, 00,000
 - **Period:** One Year (2022– 23)
 - **Status;** Ready to Print
2. **Title of the Study/Project:** *Documentation of activities conducted under different courses in IASE*
 - **Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia
 - **Grant Amount:** Budget Proposed: Rs. 1,00,000
 - **Period:** One Year (2022– 23)
 - **Status;** Ready to Print
3. **Title of the Study/Project:** *Development of material for activities based on the School Internship Programme*
 - **Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia

- **Grant Amount:** Budget Proposed: Rs. 1, 00,000
 - **Period:** One Year (2021– 22)
 - **Status;** In progress
4. **Title of the Study/Project:** Development of Concept-based Support Material for Classes IV & V in Mathematics
- **Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia
 - **Grant Amount:** Budget Proposed: Rs. 1,33,150/-
 - **Period:** One Year (2018 – 19)
 - **Status;** Print in 2021
5. **Title of the Study/Project:** Development of Concept-based Support Material for Classes I, II & III in Mathematics
- **Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia
 - **Grant Amount:** Budget Proposed: Rs. 1,30,150/-
 - **Period:** One Year (2016 – 17)
 - **Status;** Print in 2021
6. **Title of the Study/Project:** *A Study of the Primary School Teachers' Understanding of Pedagogical Content in Mathematics and Their Application in the Classroom*
- **Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** School of Education, Jamia Millia Islamia
 - **Grant Amount:** Budget Proposed:
 - **Period:** One Year (2017– 18)
 - **Status;** Report Submitted
7. **Title of the Study/Project:** *Development of content for 'Mathematics Lab Manual for Teacher Training Institutions*
- **Principal Investigator:** Dr. Roohi Fatima

- **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia
 - **Grant Amount:** Budget Proposed: Rs. 70725
 - **Period:** One Year (2015– 16)
 - **Status:** Print
8. **Title of the Study/Project:** *Concerns and Challenges Faced by Teacher Education Institutes and their Students during One Month Observations in School*
- **Assistant Principal Investigator:** Dr. Roohi Fatima
 - **Funding Agency:** IASE, Faculty of Education, Jamia Millia Islamia
 - **Grant Amount:** Rs. 71400
 - **Period:** One Year (2016 – 17)
 - **Status:** Report Submitted

Workshops Attended as a Resource Person:

1. A five-day Workshop to *translate the online course modules into Urdu* organised by the Department of Education in Languages, NCERT, New Delhi, from 6th to 10th August 2021.
2. A five-day online Workshop to *develop an Urdu version of Competency-based Assessment* organised by the Department of Education in Languages, NCERT, New Delhi, from 19th to 20th July 2021.
3. A five-day workshop on “*Development of the Handbook, “Educational Research Part II for M.Ed. Students and teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 18th to 22nd March 2021.
4. A five-day workshop on “*Development of the Handbook, “Educational Research Part I for M.Ed. Students and teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 13th to 17th March 2021.
5. A five-day workshop on “*Development of the Handbook, “Educational Research Part II for M.Ed. Students and teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 18th to 22nd January 2021.
6. A five-day workshop on “*Development of the Handbook, “Educational Research Part I for M.Ed. Students and teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 12th to 16th January 2021.

7. A five-day workshop on “*Development of the Handbook, “Educational Research Part II for M.Ed. Students and teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 23rd to 27th November 2020.
8. A two-day National Webinar On Teacher Education After Covid-19: Challenges and Possibilities organised by Teachers’ Training College, Bhagalpur on 28th – 29th May 2020
9. A five-day workshop on “*Development of Handbook on Action Research for B.Ed. and Educational Research for M.Ed. Students and Teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 22nd to 26th July 2019.
10. A five-day workshop on “*Development of Handbook on Inclusive Education for D.El.Ed. and B.Ed. Students and Teachers”*”, organised by the Department of Education in Languages, NCERT, New Delhi, from 1st to 5th February 2020.
11. A three-day Workshop on “*A Study to Assess the Learning Outcome of Mathematics at Upper Primary Stage”*”, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi, from 5th August to 7th August 2019.
12. A five-day workshop on “*Development of Handbook on Action Research for B.Ed. and Educational Research for M.Ed. Students and Teachers”*” organised by the Department of Education in Languages, NCERT, New Delhi, from 22nd to 26th July 2019.
13. A three-day Workshop on “*Module Development for ICT Based Learning Resource/Material for National Achievement Survey under Samagra Shiksha”*”, organised by Educational Survey Division (ESD) NCERT, New Delhi from 10th to 12th January 2019.
14. A five-day workshop on “*Development of Urdu Version of textbook and Supplementary Material for Manual of Secondary Mathematics and Science”*”, organised by the Department of Education in Languages, NCERT, New Delhi, from 21st to 25th January 2019.
15. A four-day Workshop on “*Study of Conceptual Understanding of Mathematical Concepts of Forming the Basis of Learning Outcomes.”*”, was organised by the Department of Elementary Education, NCERT, New Delhi, from 11th to 14th December 2018.
16. A five-day Workshop on “*Urdu Version of textbook and Supplementary Material for Manual of Secondary Mathematics and Science Kit.”*”, organised by the Department of Education in Languages, NCERT, New Delhi, from 12th to 16th November 2018.
17. A five-day Workshop on “*Urdu Version of Textbook and Supplementary Material for Manual of Secondary Mathematics and Science Kit.”*” from 13th to 17th October 2018, organised by the Department of Education in Languages, NCERT, New Delhi.
18. A two-day SAKSHAM – IT Champion Training Program from 23rd to 24th March 2018.

19. *'A three-day workshop/INSET Programme on ICT for Teacher Educators'* organised by IASE from 11th to 14th March 2018.
20. *'A three-day workshop/INSET Programme on ICT for Teacher Educators'* organised by IASE from 28th February to 2nd March 2017.
21. A five-day Workshop on *"Study of the Syllabi and Textbooks in Science and Mathematics at the Upper Primary and Secondary Stages across the country from the perspective of Conceptual Depth"*, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi, from 6th to 10th February 2017.
22. A five-day Workshop on *"Urdu translation of textbooks entitled 'Pedagogy of Mathematics' for B.Ed."*, organised by the Department of Education in Languages, NCERT, New Delhi, from 12th to 16th December 2016.
23. A one-day workshop to *Review and Finalise the draft of Learning Outcomes at the Elementary Stage* was organised, by the Department of Elementary Education, NCERT, New Delhi, on 19th May 2016.
24. A three-day Workshop on *"Evaluation of Training Package/Module in Science and Mathematics at Upper Primary Stage, developed by States"*, was organised by the Department of Education in Science and Mathematics, NCERT, New Delhi, from 28th March to 30th March 2016.
25. A one-day Workshop on the *initial findings of the Study "An Exploratory Study of Low Performing Students in Mathematics in NAS Class VIII (Cycle 3)"* on 26th February 2016, organised by the Educational Survey Division, NCERT, New Delhi.
26. A three-day Workshop on *'ICT for Teacher Educator'* organised by IASE in collaboration with FTK, CIT Jamia from 8th to 10th February 2016.
27. A three-day workshop for Validation/Identification of Concepts and Concepts Maps for National Repository of Open Educational Resources (NROER) in Mathematics, organised by Central Institute of Educational Technology, NCERT, New Delhi, on 7th, 9th, and 11th April 2014.
28. A three-day Workshop on *'ICT for Teacher Educator'* organised by IASE in collaboration with FTK, CIT Jamia from 15th April to 17th April 2014.
29. A five-day Workshop for *'Conceptual Explanation of Evaluation Terms in Urdu'* was conducted by National Testing Service-India, Centre for Testing and Evaluation, Centre Institute of Indian Languages (CIIL) Mysore, in collaboration with the Academy of Professional Development of Urdu Medium Teachers, JMI, New Delhi, from 21st November to 25th November 2011

30. A five days Workshop for ‘Development of Exemplar Problems in Mathematics for Upper Primary Stage (Class VII) from 4th to 8th January 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016
31. A four days Workshop for ‘Study of the effectiveness of the use of computers and internet on learning mathematics at Higher Secondary Stage, from 19th to 22nd January 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
32. A five days Workshop for ‘Development of Exemplar Problems in Mathematics for Upper Primary Stage (Class VII & VIII), from 8th to 12th February 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
33. Three days Workshop for ‘Development of Textbook on Pedagogy of Mathematics’ from 29th June to 1st July 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
34. Three days Workshop for ‘Development of Source Book on Assessment in Mathematics for Upper Primary Stage, from 19th to 21st July 2010, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
35. Five days Workshop for ‘Development of Source Book on Assessment in Mathematics for Upper Primary Stage, from 13th to 17th September 2010, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
36. A five days Workshop to review the developed draft of the Textbook on Pedagogy of Mathematics for a two-year B.Ed. course’ from 18th to 22nd October 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016
37. Five days Workshop for ‘Development of Prototype ICT Kit for Mathematics at the Secondary Stage, from 21st to 25th October 2010 (but attended only for three days i.e. 23rd to 25th October), organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
38. Five days Workshop for ‘Development of Source Book on Assessment in Mathematics for Upper Primary Stage, from 25th to 29th October 2010, (but attended only for four days i.e. 26th to 29th October), organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
39. A five days Workshop for ‘Development of Source Book on Assessment in Mathematics for Upper Primary Stage, from 6th to 10th December 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
40. A five days Workshop to review and modify the developed draft material of the Textbook on Pedagogy of Mathematics for a two-year B.Ed. course’ from 13th to 17th December 2010, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.

41. Three days Workshop for ‘Development of Indicators of Learning and Field Trial of Tools for assessment for Class VIII in Science and Mathematics, from 5th to 7th January 2009, Organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
42. A two days International Conference on ‘Recent Trends in Mathematics and its Applications’, organised by the Department of Mathematics, Jamia Millia Islamia, New Delhi 110025, on March 30-31, 2009.
43. A five days Workshop for ‘Development of Exemplar Problems in Mathematics for Upper Primary Stage (Class VII) from 27th to 30th April 2009, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016
44. A five days Workshop for ‘Development of Exemplar Problems in Mathematics for Upper Primary Stage (Class VIII) from 4th to 8th May 2009, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016
45. A five days Workshop for ‘Development of 21-day Training Package for Teachers without the substantial background of Mathematics/Science at Upper Primary Stage and its use in the Training of Key Resource Persons’ from 7th to 11th August 2009, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016
46. A five days Workshop for ‘Development of 21-day Training Package for Teachers without the substantial background of Mathematics/Science at Upper Primary Stage’ from 14th to 18th August 2009, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016
47. A five days Workshop for Editing/Finalisation of Training Package for Primary and Upper Primary Teachers of the North Eastern Region from 24th to 29th August 2009, (but attended only for three days i.e., 27th to 29th August) was organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016
48. Attended workshop for “Revision of Mathematics Text Books of SCERT for classes VI to VIII” from 19-20 February 2008 organised by SCERT.
49. Attended workshop for “Revision of Mathematics Text Books of SCERT for classes VI to VIII” from 18-19 April 2008 organised by SCERT.
50. A five days Workshop on ‘Development of Tools for observing the instructional facilitation, strategies of teachers and for seeking learners responses’ for the project ‘A Study on Classroom Transactions of Science and Mathematics Textbooks at Upper Primary, Secondary & Higher Secondary Stages in the light of NCF-2005’, from 16th to 20th June 2008, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.

51. A five days Workshop for ‘Preparation of Manual for Science and Mathematics Kit for Upper Primary Stage’, from 30th June to 4th July 2008, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
52. A five days Workshop for ‘Development of Indicators of Learning for Science and Mathematics for Class VIII’, from 21st July to 25th July 2008, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
53. A two days Workshop for ‘Finalisation of Mathematics Kit and its Manual for Upper Primary Stage’ under a program titled ‘Preparation of Manual for Science and Mathematics Kit for Upper Primary Stage’ from 13th October to 14th October 2008, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
54. A five days Workshop for ‘Development of Indicators of Learning for Science and Mathematics for Class VIII’, from 20th to 24th October 2008, organised by Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
55. A two days Workshop for ‘Finalisation of Mathematics Kit and its Manual for Upper Primary Stage’ under a program titled ‘Preparation of Manual for Science and Mathematics Kit for Upper Primary Stage’ from 11th to 12th December 2008, organised by the Department of Education in Science and Mathematics, NCERT, New Delhi 110016.
56. Attended Program “Critical Analysis of Live Interaction of Teachers with Experts on NCF Syllabi.” at NCERT, from 28th to 30th May 2007, organised by Department of Teacher Education Extension.

Urdu Translations:

Translation of the following books of NCERT from English to Urdu:

1. Urdu Translation of “A Handbook for Secondary Mathematics Kit”, NCERT, (New Delhi), published in November 2019.
2. A member of the review committee of Urdu Translation of “A Handbook for Secondary Science Kit”, NCERT, (New Delhi), published in December 2019.
3. A member of the review committee of the Urdu Translation of “A Handbook for Mathematics Kit for Class I and II”, NCERT, (New Delhi), published in October 2019
4. Urdu translation of textbooks entitled ‘*Pedagogy of Mathematics for B.Ed.*’, by Department of Education in Languages, NCERT, New Delhi, (2016).
5. Mathematics Textbook for Class II, developed by NCERT, New Delhi, (2007),
6. Mathematics Textbook for Class VII, developed by NCERT, New Delhi, (2007),

7. Mathematics Textbook for Class I, developed by NCERT, New Delhi, (2006),
8. Mathematics Textbook for Class III, developed by NCERT (2006),
9. Mathematics Textbook for Class VI, developed by NCERT, New Delhi, (2006),

Presently working on the following Research Projects:

1. A series of Five books titled,
 - i. *Exemplar Problem Book in Mathematics for class V: A Reference book for Pre-service and In-service Teachers at Preparatory Stage,*
 - ii. *Exemplar Problem Book in Mathematics for class IV: A Reference Book for Pre-service and In-service Teachers at Preparatory Stage*
 - iii. *Exemplar Problem Book in Mathematics for class III: A Reference Book for Pre-service and In-service Teachers at Preparatory Stage*
 - iv. *Exemplar Problem Book in Mathematics for class II: A Reference Book for Pre-service and In-service Teachers at Foundational Stage'*
 - v. *Exemplar Problem Book in Mathematics for class I: A Reference Book for Pre-service and In-service Teachers at Foundational Stage*
2. Effectiveness of Concept Mapping in Learning of Mathematics, a book for Teacher Trainees & Teacher Educators.
