

IMPORTANT DATES and LINK

Submission of Full-Length Paper
25th November, 2025

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5th December, 2025

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 Conference email: 14ncme2025@gmail.com

Link for registration and paper submission



<https://tinyurl.com/NCME2025>



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गणित शिक्षा पर
१४ वां राष्ट्रीय सम्मेलन

14TH NATIONAL CONFERENCE
ON
MATHEMATICS EDUCATION

(NCME – 2025)

22-24 DECEMBER, 2025

Organized by

क्षेत्रीय शिक्षा संस्थान
Regional Institute of Education
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ABOUT THE INSTITUTE

The National Council of Educational Research and Training (NCERT) was established in 1961 by the Ministry of Education, Government of India to prepare quality teachers in Science, Humanities, Commerce, Agriculture and Technology. Consequently, four Regional Colleges of Education at Ajmer, Bhopal, Bhubaneswar and Mysore were established as constituent units of NCERT. The Regional College of Education, Ajmer was set up in the year 1963. Later it was renamed as Regional Institute of Education (RIE), Ajmer in the year 1995. The North East Regional Institute of Education was established at Shillong in 1995 and Regional Institute of Education Nellore in 2025. RIE, Ajmer looks after the educational interest of Northern Region comprising the States/UTs of Haryana, Himachal Pradesh, Punjab, Rajasthan, Uttarakhand, Uttar Pradesh, Delhi, Chandigarh, Jammu and Kashmir and Ladakh.

This Institute with its spacious buildings, playgrounds, gardens, lawns and farm is spread over 110 acres. It is affiliated to the M.D.S. University, Ajmer. Its courses are recognized by the NCTE, New Delhi. Currently, ITEP B.Sc. B.Ed., B.A. B.Ed.: B.Ed., M.Ed. and Ph.D. programs along with Diploma in Guidance and Counselling are offered at RIE, Ajmer. The Institute has been accredited with 'A+' Grade by the NAAC since 2017.

Location
Ajmer is well-known all over India as a historical and religious place of pilgrimage as well as an educational hub. It owes its reputation partly due to the Regional Institute of Education. The Institute is popularly known as Regional College of Education in the city. It is located on the periphery of the Anasagar Lake. On one side of it is Capt. D.P. Choudhary Marg and on the side is the Pushkar Road. The distance of the Institute from Ajmer Railway Station as well as from City Bus Stand is 6 km. Auto & Taxi are available from both the places. Ajmer city is well connected by train from major cities of the country.

ABOUT THE CONFERENCE

The conference shall explore the recent developments, innovative pedagogical practices, assessment methods, history of Mathematics, learning and teaching based on NEP 2020, NCF-FS 2022, and NCF-SE 2023. The focus is on cutting-edge approaches to teaching Mathematics, including the role of Augmented Reality (AR) and Virtual Reality (VR) in enhancing the learning experience. The conference also delves into the future of work in Mathematics, including the impact of Artificial Intelligence and Machine Learning, Coding, etc. Mathematicians, Educationists, Teachers, and Researchers are invited to share their innovative ideas and research. This conference is being held by NCERT to observe the National Mathematics Day to mark the birth anniversary of the legendary Indian **Mathematician Srinivasa Ramanujan**.

OUTCOME OF THE CONFERENCE

This conference will provide the sharing platform for the participants to deliberate on the recent trends of Mathematics education and research. The proceedings of the conference will be published for improvement of the Mathematics education.

Objectives of the Conference

- To explore the recent developments, innovative pedagogical practices, assessment methods with reference to NEP-2020.
- To demonstrate the learning and teaching based on NEP 2020, NCF-FS 2022 and NCF-SE 2023.
- To explore and discuss innovative learning resources for enhancing Mathematics education at the school level.
- To integrate AI & ICT in mathematics teaching, aligning with NEP 2020, NCF-FS 2022 and NCF-SE 2023.

Themes of the Conference

Theme 1: Indian Heritage of Mathematics Education

- 1.1 Indian Knowledge System of Mathematics
- 1.2 Ethno-Mathematics
- 1.3 Incorporating Indigenous Mathematics Knowledge in Classrooms
- 1.4 Roles and Contributions of Prominent Indian Mathematicians
- 1.5 Development of Mathematics from a Historical Perspective
- 1.6 Exploring Vedic Mathematics: From Fundamentals to Advanced Calculations
- 1.7 Mathematics in Yoga, Meditation and Mindfulness
- 1.8 Recommendations of Various Committees, Commissions and Policies Related to Mathematics Education

Theme 2: Emerging Trends in Mathematics

- 2.1 Virtual and Augmented Reality in Mathematics
- 2.2 Gamification in Mathematics Education
- 2.3 Flipped Classroom Approach in Mathematics
- 2.4 Coding and Computational Thinking in Mathematics
- 2.5 Equipping Students for Future Careers in Mathematics
- 2.6 Mathematics Education for Sustainable Development
- 2.7 Virtual Laboratories
- 2.8 PM e-Vidya, DIKSHA, SWAYAM, VSK and other online learning platforms

Theme 3: AI in Mathematics: The Supportive Partner for Every Classroom

- 3.1 Personalizing the Learning Journey
- 3.2 AI-Assisted Teaching: Saving Time and Enhancing Instruction
- 3.3 Making Math Visual and Interactive
- 3.4 Feedback, Assessment, and Bridging Learning Gaps
- 3.5 The Practical Ethics of AI: Fostering Critical Thinkers

Theme 4: Inclusive, Equitable and Accessible Mathematics Education

- 4.1 Incorporating culturally relevant approaches in Mathematics education
- 4.2 Empowering Students with Special Needs in Mathematics
- 4.3 Nurturing Gifted Learners in Mathematics
- 4.4 Promoting Gender Equity in Mathematics Education
- 4.5 Nurturing Social Emotional Learning Through Mathematics

Theme 5: Mathematics Curriculum and Pedagogy

- 5.1 Recent Development in learning teaching of Mathematics in the light of NEP 2020, NCF-FS 2022 and NCF-SE 2023
- 5.2 Implication of various approaches of teaching Mathematics
- 5.3 Learner-centric and participative methods of teaching Mathematics
- 5.4 Analytical pedagogical concerns in teaching of Mathematics for higher order thinking skills
- 5.5 Techniques of learning teaching Mathematics
- 5.6 Competency based education in Mathematics at various stages of School Education

Theme 6: Assessment for Learning in Mathematics

- 6.1 Organization of oral, written, and practical assessment in Mathematics
- 6.2 Tools to identify learning difficulties and providing enhanced learning in Mathematics
- 6.3 Holistic progress card, 360° Assessment and assessment of Mathematical aspects
- 6.4 Competency-Based Assessment in Mathematics
- 6.5 Challenges in Assessing the mathematical competencies

Theme 7: Teachers Professional Development in Mathematics

- 7.1 Collaborative Professional Development in Mathematics Education
- 7.2 Teacher Initiative and Leadership in Mathematics
- 7.3 Mathematics Teacher Training in the Digital Time
- 7.4 Teacher Professional Development in Pure and Applied Mathematics

Theme 8: 21st Century Skills for Learning Mathematics

- 8.1 Need and importance of 21st century skills for learners and teachers of Mathematics.
- 8.2 Teacher Training in Mathematics for the 21st century skills
- 8.3 Psychological, sociological, and philosophical perspective of learning -teaching and development of Mathematics
- 8.4 Qualities of a Mathematics teacher as a professional
- 8.5 Role of a teacher in facilitating learning and creating dynamic learning environment of Mathematics

Theme 9: Popularization of Mathematics

- 9.1 Mathematics kit, Jadui Pitara, Puzzles, Toys, and Indigenous Games, Recreational Mathematics, Art Integrated Learning
- 9.2 Mathematics Storybooks and literature
- 9.3 Role of New NCERT Textbooks in Mathematics Learning
- 9.4 Mathematics Magazines, Newsletters, Journals
- 9.5 Mathematics of everyday life.
- 9.6 Mathematics Club, Societies, Organizations
- 9.7 Mathematics Resource Room/ Laboratory – Equipment and Management
- 9.8 Role of Social Media like You tube, Instagram, Facebook, X, etc. in enhancing learning of Mathematics

Theme 10: Research and Innovative Practices in Teaching of Mathematics

- 10.1 Divergent thinking for innovation in Psychological, Sociological, and Philosophical perspectives of Mathematics for quality learning experiences
- 10.2 Innovative practices in Mathematics for diversified learners in the classroom
- 10.3 Innovative pedagogy of learning of Mathematics
- 10.4 Research on issues of gender, class and culture in Mathematics learning and achievement
- 10.5 Action research for solving problems of learning -teaching of Mathematics

CALL FOR PAPERS

We invite researchers, educators, policymakers, teachers to submit original research papers/articles on the specified themes. Interested delegates are requested to submit their full papers (not exceeding 5000 words) along with an abstract (not exceeding 300 words) **through the provided link**. The submissions should be in Word format, typed in Times New Roman 12-point font size with 15-line spacing (Articles in Hindi should be typed in Unicode in 14-point font size), and include the title, author(s) names with complete addresses. The abstract should be in a paragraph covering the importance, objectives, methodology, findings, conclusion, and key words, while the full paper should follow the American Psychological Association (APA) style with subheadings such as Introduction, Objectives, Methodology, Results and Discussion, Conclusions, Acknowledgments, and References. A screening committee will review the submissions based on originality and quality, and successful delegates will be informed accordingly. Additionally, workshops and poster presentations will be organized alongside paper presentations, and interested individuals may contact the organizing committee for further details.

We are delighted to welcome you to the **"14th National Conference on Mathematics Education"**. This conference is a unique convergence of researchers, educators, policymakers, teachers, AI experts and thought leaders dedicated to exploring and shaping the future of Mathematics education. We look forward to your active participation and to the vibrant discussions that will undoubtedly emerge from this gathering. Let us embark on this exciting journey together.

PLAGIARISM ALERT

Authors should ensure proper citation and acknowledgment of original ideas and sources in their submissions. This helps us maintain the highest academic standards. Each paper will be screened for plagiarism, and those don't meet standard plagiarism guidelines will be summarily rejected.

ACCOMMODATION AND TRAVEL DETAILS

For non-local paper presenter (only one), TA (III AC) depending upon the entitlement will be reimbursed after the submission of original tickets booked from authorized source as per NCERT norms. Lodging and boarding will be provided by RIE, NCERT, Ajmer to only one presenting author on the basis of availability.