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एन सी ई आर टी
NCERT

Invitation

8th National Conference
on
Teaching – Learning
in Mathematics

December 19-21, 2019

To

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Organised by:
Regional Institute of Education
NAAC Accredited A[+] Institute
(A Constituent Unit of National Council of Educational Research and Training, MHRD, Govt. of India)
Capt. D.P. Chaudhary Marg,
Ajmer - 305004, Rajasthan, India

Website: http://www.rieajmer.raj.nic.in
Conference Website : https://sites.google.com/view/nctlm2019
Conference Email: rieajmer.maths@gmail.com
YouTube: RIE, AJMER Official

line spacing 1.5, and within 300 words. The full paper is also to be written in the same format within 8000 words substantiated with relevant data related to the themes and sub themes of the conference. **Participants are requested to Highlight the theme and the sub-theme of their paper just after Title of the paper.** The Abstract should be accompanied by 4/5 keywords. Pictures/ Diagrams used in the paper to be sent separately in JPG file along with the paper. Acceptance notification will be communicated through email only. Add the above email ID in the contact list to avoid receiving any communication as spam. The proposed presentation may also be sent to the same email ID after acceptance of the paper. The paper / poster should be organized in the following format:

*Abstract with Key Words *Introduction *Objectives *Method & Procedure *Results & Discussion *Conclusion & Implications and *References.

Plagiarism Alert

Authors are requested to adhere to strict academic ethics with respect to the acknowledgement of the original ideas from others and sources to avoid plagiarism, as each paper will be screened by the screening committee. Papers not complying to ethical standards will be summarily rejected.

The name of the presenting author is to be underlined: Screening committee will shortlist the abstracts based on originality and quality of research under various sub themes and successful participants will be informed accordingly. Workshops/poster gallery based on above sub themes will also be organized along with paper presentation. Interested persons may send the details to the convener.

Important Dates:

Abstract submission   – November 10, 2019
Acceptance notification – November 15, 2019
Full paper submission (soft copy) and Registration – November 30, 2019

Hospitality

TA (only II AC) will be paid as per NCERT norms to invited nonlocal participants only. For students/Research scholars, TA (III AC) will be provided for invited non-local participants. Local conveyance will be provided only for invited local participants. Arrangement for accommodation will be made in Institute Guest House on first registration basis.

Outcomes

This three-day conference, will provide a challenging opportunity to Mathematicians, Mathematics Educationists, Mathematics Teacher Educators, Research Scholars, Academicians and Teachers to share their thoughts, experiences and research studies and to make scholarly contributions towards improvement of teaching and learning Mathematics. Inputs for policy will be provided through seminar recommendations. The abstracts and full papers may be published as seminar proceedings.

विद्या 5 गुरुपासते
NCERT

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Director, NCERT

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RIE, Ajmer

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RIE, Ajmer

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About RIE, Ajmer

Regional College of Education, Ajmer was set up in the year 1963 and is a constituent unit of National Council of Educational Research and Training (NCERT), New Delhi. Later it was renamed as Regional Institute of Education (RIE), Ajmer in the year 1995. It looks after the educational interests of Northern Region comprising the states of Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab, Rajasthan, Uttarakhand, Uttar Pradesh, the National Capital Territory of Delhi and the Union Territory of Chandigarh.

Ajmer is well-known all over India as a historical and religious place of pilgrimage as well as an educational centre. It owes this reputation partly to the Regional Institute of Education (RIE). The Institute is situated six km. away from the Ajmer Railway Station in the midst of idyllic surroundings with the historic Anasagar Lake in front and the Aravali hills all around. It is almost equidistant from the world famous Dargah of Khawaja Moinuddin Chisti beyond the lake and the holy place of Hindu pilgrimage, Pushkar, at the back. This Institute, with its spacious buildings, playgrounds, gardens, lawns and farm is spread over 110 acres. It is affiliated to the Maharshi Dayanand Saraswati University, Ajmer and its courses are recognised by the NCTE, New Delhi. It is controlled and managed by the NCERT. The management committee, chaired by the Vice-Chancellor of the affiliating university performs the advisory role on matters of academic interest.

About the Conference

Mathematics is a methodical application of matter. It is thus said because the subject makes a man methodical or systematic. Mathematics makes our life orderly and prevents chaos. The important qualities that are nurtured by mathematics are, power of measuring, reasoning, creativity, abstract or spatial thinking, exploring, critical thinking, problem solving ability and even the effective communication skills. At present the main challenges faced by the school education are regarding the development of inclusion schools and healthy mind set for removal of psychological barrier related to mathematics among the learners. These also includes the effective pre-service and in-service training of teachers for developing a constructivists approach in the mathematics education. To make the best of it, there should be a shift in the focus from mathematical content to mathematical learning environment. Engaging every student with the sense of success, while at the same time offering conceptual challenges to the emerging mathematician and changing modes of assessment to examine the student's mathematical abilities rather than procedural knowledge to modify the learning of students are also challenges faced by

mathematics education today. Enriching teachers with a variety of mathematical resources enhance the quality of mathematics education.

The main purpose of the conference is to improve the teaching learning process of Mathematics. This conference will pave the way to find implications of history of mathematics, particularly the contributions of Indians and recent developments, including pedagogical practices used to enhance the teaching learning process of mathematics. The broad theme of the seminar "Mathematics Education", is intended to focus on the innovative pedagogical practices experimented and found useful in teaching of mathematics at different levels and to connect different aspects of the mathematics education such as inclusive mathematics classroom, school mathematics curriculum, assessment, use of ICT and other resources and linking mathematics with everyday life and other disciplines. In this context the Mathematicians, Educationists, Teacher Educators, Research Scholars, Academicians and Teachers are invited to share their thoughts, experiences, researches in the National Seminar which is being organised by RIE Ajmer to observe the National Mathematics Day to mark the birth anniversary of legendary Indian mathematician Srinivasa Ramanujan.

Themes and Sub Themes

1. **Researches in Mathematics Education**
   - Indian Mathematicians and their contributions
   - Evolution/History of Mathematics
   - Mathematics in –Daily Life, Environment, Science and Technology, Agriculture, Art and Culture, Sports, Weather Forecasting, Industry, Spirituality etc.
   - Role of Mathematics in economic development of India
   - Action Research in School Mathematics
   - Recent Researches in Mathematics Education
   - Important events in mathematics

2. **Mathematics in School Curriculum**
   - Place of Mathematics in school curriculum
   - Education Policies and implementation
   - Interdisciplinary approaches in mathematics
   - Comparison of mathematics syllabi of different states of India
   - Comparison of mathematics syllabi of different countries with respect to India
   - Twenty – first century/Future mathematics learning – issues and challenges

3. **Mathematics Pedagogy**
   - Innovative practices in mathematics classroom: Teaching, Learning and assessment/evaluation, Mathematics lab integration
   - The role of technology in mathematics teaching and learning

   - Applying various methods of teaching Mathematics to Classroom Instruction
     - Problem solving and problem posing
     - Solving daily life problems with the help of Mathematics
   - Remedial measures to deal with fear and phobia in Mathematics
   - Professional development of (pre–service and in–service) mathematics teacher
   - Transection of concepts at different stages of school education such as;
     - Primary level
     - Upper Primary level
     - Secondary and tertiary level

4. **Mathematics for Inclusive classroom.**
   - Promoting special education, students' learning and retention of concepts in Mathematics
   - Mathematics for inclusive classroom: How to deal differently abled students, student's identity, social justice, culture, and language within the mathematics classroom
   - Ethno mathematics/Folk mathematics/Street mathematics
   - Mathematics learning and culture
   - Managing large Mathematics classrooms
   - Importance of language in transaction of mathematical concepts

5. **Reforms in Assessment in Mathematics**
   - School based assessment in mathematics
   - Measurement of learning outcomes in mathematics
   - Analysis of reasons for low performance in Mathematics as reported by many national surveys like National Achievement survey and international assessment like PISA and TIMSS
   - Comparison between India and other countries about assessment

6. **Skill Development through Mathematics**
   - Measuring skills
   - Identifying Symmetry
   - Patterns in mathematics and environment
   - Integration of Measurement, Symmetry and Pattern
   - Vocational skills in Mathematics

Based on the above themes/sub-themes, the conference will focus on many questions and associated issues relating to the development of mathematics teaching and the objective of teaching Mathematics.

Call for Papers

Interested Researchers, Teachers, Teacher Educators, Pedagogues, Research Scholars, Students are requested to upload Abstract and/or full paper by filling the registration form using the link https://sites.google.com/view/nctlm2019 The abstract should be typed in MS Word with Font Size 12,