

An Inter-National Conference on
Shaping Tomorrow's Mathematics Classrooms (STMC-I)
Human Creativity, Digital Innovation, and Artificial Intelligence

Inspiring Minds, Innovating Learning, Transforming Mathematics

Mathematics education is undergoing a profound transformation as schools and universities navigate the opportunities and challenges of the digital age. Traditional mathematics classrooms are evolving into dynamic learning environments where learners are expected not only to acquire mathematical knowledge but also to develop critical thinking, creativity, collaboration, communication, and problem-solving skills. At the same time, rapid advancements in educational technology and Artificial Intelligence (AI) are creating unprecedented opportunities for personalized learning, intelligent assessment, real-time feedback, data-informed instruction, and enhanced learner engagement.

Despite these technological advancements, human creativity remains at the heart of effective mathematics education. Teachers continue to play an indispensable role as facilitators, mentors, innovators, and designers of meaningful learning experiences. The future mathematics classroom therefore requires a harmonious integration of human creativity, digital innovation, and artificial intelligence to create learning environments that are inclusive, engaging, equitable, and future-ready.

This conference aims to bring together mathematics educators, researchers, teacher educators, policymakers, educational leaders, curriculum developers, and technology innovators to explore how mathematics education can be transformed through innovative pedagogical practices, digital technologies, and AI-powered solutions. The conference seeks to promote dialogue, showcase best practices, share research findings, and develop strategic pathways for preparing teachers and learners for an increasingly technology-driven world while preserving the human dimensions of teaching and learning.

The conference recognizes that the future of mathematics education is not a choice between human intelligence and artificial intelligence but rather a collaborative partnership where technology amplifies human potential, enriches learning experiences, and empowers teachers to inspire the next generation of mathematical thinkers, innovators, and problem-solvers.

Conference Objectives

The conference seeks to:

1. Explore emerging trends and innovations shaping mathematics education in the digital and AI era.
2. Promote creative and learner-centered pedagogical practices that enhance mathematical understanding and engagement.
3. Examine the role of educational technologies in improving mathematics teaching and learning.
4. Investigate opportunities, challenges, and ethical considerations of Artificial Intelligence in mathematics education.
5. Strengthen teachers' digital, pedagogical, and AI competencies.
6. Share innovative classroom practices, research findings, and institutional experiences.
7. Foster collaboration among teachers, researchers, educational institutions, and policymakers.
8. Develop recommendations for future-ready mathematics education systems.

Suggested Sub-Themes

The following subthemes are suggested for the conferences.

Sub-Theme 1:

Innovative Mathematics Pedagogy for Deep Learning and Student Engagement

Effective mathematics education depends not only on what is taught but also on how it is taught. Traditional approaches often emphasize memorization and procedural fluency, whereas contemporary educational frameworks advocate for conceptual understanding, inquiry,

exploration, and application. This sub-theme focuses on innovative teaching strategies that engage students actively in mathematical thinking and problem-solving. Participants will explore pedagogical approaches that foster curiosity, reasoning, collaboration, and reflective learning.

Areas of Interest

- Flipped learning in mathematics classrooms
- Problem-based and inquiry-based mathematics learning
- Mathematical modeling and real-life applications
- Project-based learning in mathematics
- Active learning strategies
- Collaborative and cooperative learning
- Design thinking in mathematics education
- Gamification and game-based mathematics learning
- Differentiated instruction and inclusive pedagogies
- Culturally responsive mathematics teaching

Sub-Theme 2:

Technology-Enhanced Mathematics Teaching and Learning

Technology has become an essential component of modern education. Digital tools provide opportunities to visualize mathematical concepts, facilitate collaborative learning, support remote instruction, and improve learner engagement. This sub-theme explores the effective use of educational technologies to enrich mathematics teaching and learning processes. It focuses on pedagogically meaningful technology integration rather than technology use for its own sake.

Areas of Interest

- Dynamic mathematics software
- GeoGebra and visualization technologies
- Learning Management Systems (LMS)
- Virtual and blended learning

- Online mathematics resources
- Mobile learning applications
- Augmented Reality (AR) and Virtual Reality (VR)
- Digital content development
- Technology-supported classroom management
- Open educational resources

Sub-Theme 3:

Artificial Intelligence and the Future of Mathematics Education

Artificial Intelligence is transforming educational practices globally. AI-powered tools are increasingly being used for lesson planning, tutoring, assessment, content generation, personalized learning, and educational analytics. This sub-theme investigates how AI can be leveraged responsibly and effectively to enhance mathematics education while addressing ethical, pedagogical, and practical concerns.

Areas of Interest

- Generative AI in lesson planning
- AI-assisted mathematics instruction
- Intelligent tutoring systems
- Personalized mathematics learning pathways
- AI-supported assessment and feedback
- ChatGPT and Large Language Models in education
- AI literacy for teachers and students
- Ethical implications of AI use
- Responsible AI integration
- Future AI-driven classrooms

Sub-Theme 4:

Assessment, Learning Analytics, and Evidence-Based Teaching

Assessment is evolving from a tool for grading to a mechanism for supporting learning and instructional improvement. Technology and AI have created opportunities for continuous assessment, real-time feedback, and learning analytics. This sub-theme examines innovative assessment practices and data-informed teaching strategies that improve student learning outcomes.

Areas of Interest

- Authentic assessment in mathematics
- Competency-based assessment
- AI-supported assessment systems
- Formative assessment technologies
- Learning analytics
- Digital portfolios
- Rubric-based assessment
- Automated feedback systems
- Data-informed instruction
- Assessment of higher-order thinking skills

Sub-Theme 5:

Teacher Professional Development for the Digital and AI Era

Teachers remain the most important factor in educational transformation. The successful integration of technology and AI depends largely on teachers' competencies, attitudes, and professional readiness. This sub-theme explores strategies for developing future-ready teachers capable of leading educational innovation.

Areas of Interest

- Digital competency frameworks
- AI literacy for educators
- Continuous professional development

- Professional learning communities
- Action research and reflective practice
- Teacher leadership
- Mentoring and coaching
- Future-ready teaching competencies
- Digital citizenship
- Change management in education

Sub-Theme 6:

Curriculum Innovation, STEM Education, and Educational Policy

Educational transformation requires alignment among curriculum, pedagogy, assessment, technology, and policy. Curriculum reforms should prepare learners for rapidly changing social, technological, and economic realities. This sub-theme explores curriculum innovation and policy directions that support future-oriented mathematics education.

Areas of Interest

- Competency-based curriculum
- STEM and STEAM integration
- Mathematics curriculum reform
- Future skills and employability
- Entrepreneurship education
- Sustainable development and mathematics
- Educational policy and governance
- Curriculum implementation challenges
- AI and curriculum transformation
- International trends in mathematics education.

Conference Organizers

The program will be jointly organized by Council for Mathematics Education (CME) National Committee and Central Department of Mathematics Education, Tribhuvan University.

The Council for Mathematics Education (CME), National Committee, is a professional organization committed to promoting quality mathematics education, professional development of mathematics teachers, research dissemination, and educational innovation. The Council serves as a national platform for mathematics educators, researchers, curriculum experts, and practitioners to collaborate in enhancing mathematics teaching and learning. Through conferences, workshops, publications, and professional networking, CME actively supports the development of competent, reflective, and future-ready mathematics educators throughout Nepal.

The Central Department of Mathematics Education (CDME), Tribhuvan University, is Nepal's premier academic institution dedicated to advancing mathematics education through teaching, research, curriculum development, and professional engagement. The department has played a pioneering role in preparing mathematics educators, conducting educational research, and promoting innovative pedagogical practices at national and international levels. Through its commitment to academic excellence and educational transformation, the department continuously contributes to strengthening mathematics education in schools, colleges, and universities across Nepal.

Venue: Kathmandu, Nepal

Details about venue will be provided later.

Who Can Participate?

The National Conference warmly welcomes a diverse group of participants committed to advancing mathematics education and educational transformation.

Participation is open to:

- Mathematics teachers from basic and secondary schools
- University and college faculty members in mathematics and education
- Teacher educators and trainers

- Researchers and academic scholars in mathematics education and related fields
- Curriculum developers and assessment experts
- Educational technology specialists and innovators
- School leaders, head teachers, and education policymakers
- Graduate (Undergraduate/Master/MPhil/PhD) students and pre-service teachers
- Representatives from educational organizations and professional associations
- ICT and AI practitioners working in education

The conference particularly encourages collaborative participation among teachers, researchers, and technology experts to share practical innovations, classroom experiences, and research-based insights.

Call for Ideas and Paper Submission

Participants are invited to submit research papers, conceptual papers, practice-based innovations, or teaching ideas aligned with the conference theme and sub-themes.

1. Types of Submissions

- Full research papers (completed studies)
- Conceptual or theoretical papers
- Classroom-based action research reports
- Innovative teaching practice papers
- Technology or AI integration case studies
- Workshops topics
- Panel Discussion issues

2. Submission Guidelines

- Abstract length: **250–300 words**
- Full paper length: **2,000–3,000 words** (including references)
- Format: Times New Roman, 12 pt font, 1.5 spacing
- Citation style: APA (7th edition)

- Language: English or Nepali
- Authors must clearly mention:
 - Title of the paper
 - Author(s) name, affiliation, and contact details
 - Keywords (3–5)

3. Submission Process

All submissions must be made electronically via email

councilformathematicseducation@gmail.com

Subject line: “*Conference Submission _type*”

4. Review and Selection Process

- All submissions will undergo a peer-review process by the Scientific Committee.
- Authors may be requested to revise their papers based on reviewers’ feedback.
- Accepted papers will be included in the conference proceedings.
- Selected papers may be recommended for publication in a journal issue.

5. Important Dates

- Abstract and/or paper Submission Deadline: September 30, 2026 (*Aaswin 14, 2083*)
- Notification of Acceptance: *October 16, 2026 (Aaswin 30, 2083)*
- Conference Dates: *November 27-29, 2026 (Mangsir 11-13, 2083)*

6. Extended Workshops

There are options for facilitating different workshops for mathematics teachers and/or in common themes for school and college level teachers in different parts of the country. Each extended workshop will be of 3 hours. The allocation will be made based on best match of demand and supply. Workshop venues for the extended workshops are Kathmandu, Hetauda, Chitwan, Dharan, Dhangadi, and Pokhara. The list can be extended best of the demand of the

different organizations. The extended workshops will be organized during Decemeber 01-03, 2026. You can also send proposal for facilitating extended workshops.

7. Tentative Schedule of the Program

The following table guides the tentative schedule of the program. Detail schedule of the conference and extended workshop will be made available later.

Program Schedule

Time	Program Headings		
	Nov 27, 2026 (Mangsir 11, 2083)	Nov 28, 2026 (Mangsir12, 2083)	Nov 29, 2026 (Mangsir 13, 2083)
08:00 — 09:00	Registration		
09:00 — 09:30	Breakfast		
09:30 — 11:00	Opening Presentations	Keynotes V and VI	Keynotes IX and X
11:00 — 12:30	Keynotes I and II	Workshop Sessions	Panel Discussion
12:30 — 13:30	Lunch		
13:30 — 15:00	Thematic Paper Presentations		
15:00 — 16:30	Keynotes III and IV	Keynotes VII and VIII	Closing Presentations
16:30 — 17:00	Refreshment and Networking		

8) Registration Fee

The following registration fee is to be paid by online in the Bank account of Council for Mathematics Education.

Type of Delegates	Early Birds	Normal Birds	Venue Based	Remarks

	(Nov 14, 2026)	Nov 15-Nov 23	Nov 24 onwards	
Invited Guests and Keynote Speakers	No	No	No	
Nepali Delegates (Personal Registration)	N Rs. 4000	N Rs 4500	N. Rs 5000	
Nepali Delegates (Institutional Registration)	N Rs. 8000	N Rs 9000	Rs 10,000	
Students/Life Members (Only for CME's life Members)	N Rs. 2000	N Rs 2500	Rs 4000	Need to produce Valid ID card/ Life member card.
International Delegates	USD 50	USD 60	USD 100	Exchange rate will be on the transaction date

What the registration fee will cover?

Registration Fee Includes:

The registration fee for the three-day International Conference (27–29 November 2026) includes:

- a) Breakfast during the conference days
- b) Lunch
- c) Tea and snacks during breaks
- d) Conference proceedings
- e) Conference stationery pack
- f) Certificate of Participation / Presentation

Note that the registration fee does not include accommodation, travel, airport transfers, visa expenses, or other personal expenses.