

# **National Conference on ICT in School Education: A Brief Report**

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The Information and Communication Technologies (ICTs) play an increasingly important role in the way we communicate, learn and live. The convergence of recent technologies, web and mobile technologies, provides unique opportunities and an infrastructure for both face to face and online learning environments. All the above said programmes/schemes are aimed at bringing a synergy among all the ICT integration efforts and systematic scaling-up of projects and its sustainability. In this background, it is important that the education system needs to harness the potential of these schemes and initiatives in improving the learning and assessment practices in our schools and classrooms. Therefore, this conference is planned to provide an opportunity for exchanges of national and international initiatives and experience on ICT in school education, spreading information, and making suitable recommendations for policy planners, academic and administrative staff. The conference is expected to focus on a) Exploring innovative use of ICT in teaching-learning-assessment process, b) Use of FOSS tools and OER practices in subject teaching and learning, c) Discuss the use of sophisticated access devices/Ubiquitous Technologies and everywhere learning, d) Exploring efficient management strategies for technology integration initiatives, e) Discuss on more self-directed human resource development approaches using emerging technological possibilities, f) Use of sophisticated assistive technology tools and solutions for Disabled Learners and making classrooms more inclusive based on the principles of universal design for learning, g) Implementing design based research, action research and other applied research in technology integration in education to develop better insight, and h) Exploring means to rewarding and recognizing the performers and showcasing best practices, National Conference was organised with following objectives:

- To showcase the innovative practices of ICT integration in School education.
- To provide a discussion forum for improving the quality of the teaching-learning process with ICT based support to school education.
- To explore various current and emerging ICT tools, services, culture of learning (development of learning skills, expansion of optional Education, open source of education, etc.) and discuss the implications of these on school education.
- To explore the ICT based tools for the learners with special needs to integrate themselves within school and society by increasing their independence and by developing their abilities and interests.

- To provide platform for sharing innovative experiments for enhancing efficiency of assessment and administrative practices through ICT integration for School Education.
- To explore various professional development alternatives in enhancing ICT integration competencies.
- To explore the ICT trends in instructional designing and pedagogical practices for school education.
- To discuss the challenges in integrating ICTs in school education and measures to overcome these Challenges.
- To provide an opportunity to share research studies on ICT integration in school education today.

In the conference papers were invited on the following themes:

- Policies and issues related to ICTs in School Education
- ICT in Teaching-Learning-Assessment process
- Research related to ICT in Schools
- ICT in Teacher Professional Development
- ICT in Innovative Schools, School Governance

The National Conference on ICT in School Education' was organized from 27th November, 2017 to 29th November, 2017 at Regional Institute of Education, NCERT, Ajmer to provide a common platform to all stakeholders working in the field of ICT in School Education to share their experiences, researches, innovative practices and their impact in improving the quality of school education. In this Conference 200 abstracts pertaining to theme and sub themes were received from School Teachers, ICT Education Researchers and Faculty of DIETs, CTEs, SCERTs, SIERTs, SIEs, IASEs, NCERT, IISERs, NISER, Teacher Training Institutions, Colleges, Universities and NGOs etc. for oral presentation. Review committee selected and recommended 107 abstracts of researchers for making their presentations in different parallel technical sessions. Out of 107 presentations, 73 presenters made their presentations in technical sessions of the Conference. In addition to these presentations, 01 Panel discussion and 13 keynote addresses were also delivered by the invited speakers of the repute. Review/Editing committee recommended 60 full length papers including the messages from VIPs for publication in the proceedings. Full length papers included in this book (in form of the proceedings) are based on theme and sub themes viz. Policies and issues related to ICTs in School Education, Planning and Analysis of policies on ICT, OER in school education, Universal access to quality content, Technological issues in education (E-Learning, Apps for learning, Mobile learning, phones, tablets), ICT in Teaching-Learning-Assessment process, OER practices in subject teaching & learning, Mathematical fundamentals of ICT and educational change, ICT in assessment and learning, ICT and issues in Science and other fields of human culture related to ICT education, ICT enhanced language teaching and learning, Research related to ICT in Schools, Research on effective practices of ICT in school education, ICT in Teacher Professional

Development, Teacher's professional development of promoting ICT in school education, Technological innovations for teaching in Schools, ICT skills and competencies among teachers, ICT in Innovative Schools, School Governance, ICT in Innovative Schools, Impacts and Effective use of ICT for quality learning, Monitoring and evaluation of the impact of ICT on school Education, Beneficial Effects of E-Governance in Schools and ICT for inclusive education.

### **Recommendations**

Conference recommends

- To create teaching and learning environment using ICT into schools and help teachers and children make best use of the opportunities that ICTs provide.
- Implementing the national policy on ICT for school education in India with meeting challenges and issues; by showcasing ICT practices, going beyond computer literacy, learning from state/BOOT partners/NGO Experience, e-Governance, Mission Mode programme in school education.
- The ministry of education, CIET/NCERT, State education ministry/SCERT/SIET and school leaders need to work together to create a system of responsibility and accountability in implementing policy guidelines, monitoring its progress, conducting evaluation studies through programme evaluation, generating feedback and revising the guidelines in the light of these evaluation studies.
- To accommodate rapidly changing ICT development which affects both discipline knowledge and pedagogical possibilities in ways that influence teachers' perspectives for employing ICT as a constant part of the learning process.