

# Influence of ICT in Mathematics Teaching

Dirgha Raj Joshi

Research Scholar, Banaras Hindu University, India

Email - joshidirgha86@gmail.com

**Abstract:** Information and communication technology (ICT) is contemporary model which has combined in many streams. It has several assistances in mathematics connected pedagogical performs. Several research has shown it is beneficial for the development of Permute pedagogical skills, teaching efficiency, professional skills, content knowledge and teaching skills, communication skills, adjustment skills and other related skills of teachers and increase knowledge, skills, abilities, performance, achievement, self-learning capacity, communication skills, develop problem solving skills, motivate to learn, promote mathematical understanding, funny learning and engage with mathematical problem solving to the students. So every teachers and students should extremely utilize it in their teaching learning activities.

**Key Words:** *ICT, Skills, Learning, Development, Motivation.*

## 1. INTRODUCTION:

Mathematics is scientific and behavioral discipline so every country has integrated it as a compulsorily subject in school education. It is valuable in our each life events. Generally we can found five characteristics of understanding mathematical concepts as introducing a problem using a realistic context, identifying the main objects of the problem, using appropriate social interaction and teacher intervention to refine the models of the problem, encouraging the process of reinvention as the problem develops and focusing on the connections and aspects of mathematics. It is necessary to developed technical and cognitive proficiency of mathematics teachers. Algebra, Analysis, Topology, Mathematical Logic, numerical analysis and discrete mathematics are the area of modern mathematics. All sciences and other disciplines like psychology, sociology, philosophy, epistemology, pedagogy, curriculum studies and science are based on mathematics directly and indirectly (Stacey, 2004). ICT is sympathetic for collaborative and individual learning (Shunag, 2002). Hence this discipline is more important in our daily activities. ICT supports mathematics for composing, revising, editing, publishing, calculating, making connections, visualizing data, finding importance, synthesizing and problem solving. Varieties of notations, formulae, symbols, figures and graphs are available in mathematics which are really difficult to demonstrate in blackboard/whiteboard like 2D and 3D figures, graphs and chart, transformation of objects and other associative matters. By ICT related applications, tools and software such matter can be taught expressively. Pupils use to come to mathematics lessons with expectations about how they might apply ICT to move their own learning forward. Mathematics teachers will not need to teach ICT capability but can exploit new chances for apprentices to apply and advance the competence that they previously have, to improve their learning in mathematics.

Mathematics is basic substance of each technologies and technologies support mathematics teaching. Outcome of computer technology on education is superior in mathematics than in any other discipline (Aydm, 2005). Technology develops abstract ideas for teachers by which they can build students prior knowledge, abilities and skills, links to the materials with mathematical concepts, address common understandings and introduce more advanced ideas (CTLI, 2007). The quality of mathematical software packages has been improving rapidly; however technology is still marginally integrated into education at all levels (Lavicza, 2008). ICT helps to teach mathematical facts, skills, knowledge, concepts and recover their mathematical understanding more effectively besides it helps to upsurge the capability of students and teachers. It comforts the individuals to organize, present and treat their mechanism and transfer their inference with others. "Technology is essential in teaching and learning mathematics; it influences the mathematics that is taught and enhances students' learning" (NCTM, 2000). Pedagogical shift of technology engenders new teaching approaches to expand students' conceptual understanding, procedural fluency and strategic competence in mathematics. ICT makes mathematics teaching healthier and helps to increase the achievement of students (Safder et al., 2011; Gera & Verma, 2012). So every teacher has to use related technological tools, application

# Teaching Mathematics With Ict 11 18

**Jin-Ying Zhang**



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