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Evolution of Computer Technology in Indian Education: Challenges and Opportunities

Dr. Poonam Lata Middha, Associate Professor, Sri Vinayak Mahavidhalya

Abstract

Computer technology has played an important role in the development of the Indian education system. The introduction of computers in educational institutions created new opportunities for teaching, learning, communication, and knowledge sharing. Various initiatives by the Government of India, such as Computer Literacy and Studies in Schools (CLASS), the National Policy on Education (1986), Programme of Action (1992), and the National Mission on Education through Information and Communication Technology (NMEICT, 2009), contributed to the promotion of technology-based education. The use of computers, multimedia presentations, educational software, internet facilities, and digital learning resources gradually transformed traditional classroom teaching into more interactive learning experiences. These initiatives helped students develop computer literacy, technical skills, and independent learning abilities. However, challenges such as inadequate infrastructure, limited internet connectivity, lack of trained teachers, and the digital divide affected the effective implementation of computer-based education, particularly in rural areas. The present study highlights the development of computer technology in Indian education, with special reference to educational policies, technological initiatives, achievements, and challenges. It also examines how early technological developments laid the foundation for digital education in India.

Keywords: Computer Technology, Indian Education System, National Policy on Education 1986, Educational Technology, ICT, Digital Literacy, Computer-Based Learning, NMEICT, Educational Development.