

## **ABSTRACT**

### **A Study of Impact of Information and Communication Technologies on Environment: In context of Opportunities and Development as well as Challenges**

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**Abstract:** Development of Information and Communication Technologies (ICT) has changed the world. Every day hundreds of information communication devices and apps are manufactured and make our living easier. These days development of any country based on technologies development and in the field of development of ICT plays a vital role. Today, both developed and developing countries face many issues and challenges related to environment such as climate change, waste management, improving energy efficiency, air pollution, loss of natural habitats, issues and challenges related to transport and areas of urban and rural system. In fact, ICTs play optimization role in which people living and working. All the process of innovation, development and consumption are needed for any country but is a challenge for environment. In context of development different elements of information and communication technologies such as database system, Geographic Information Systems (GISs), remote sensing and multimedia etc. helping to dealing with different environmental problems. Therefore, smart ICT and their application have both negative and positive impact on environment but in the context of green growth strategies, ICTs become a broader part of environment policies. Green information and communication technologies refer to smart application of technologies which have positive impact on environmental presentation and ecosystems. This paper explores how ICTs help to tackle environmental related issues and challenges. This study aims to know how smart ICT and their applications recognize all environmental problems and make people aware beforehand to take early action.

**Key Words:** Environment, Information, Technologies, Development, Communication, Innovation, Challenges.

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