

## **A Study of Impact of Mobile Phone on Society Based On Statistical Tools and Techniques**

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### **Abstract:**

Now a day's mobile phones have become an indispensable tool as communication plays a key role in all the aspects of life. It has become an essential accessory carried by everybody not only because they make it easy to keep in touch with people but because of the various facilities they offer especially the internet. The charm of mobile phone is more among society and the increasing use may result in dependence. Aim was to study the usage pattern and dependence of mobile phones among society. A cross sectional study conducted among 152 peoples and studied the pattern of usage of mobile phones, common problems encountered and its dependence using a questionnaire. Using Statistical tools we analyzed the data and our study shows Xiaomi mobile brand is more popular among the society and they are mostly preferred the Airtel' Sim card company peoples. Mostly peoples use mobile phones for calling and social media.

**Key words:** Chi-Square Test, Kruskal-Wallis Test, SMS, SIM, MMS

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### **I. INTRODUCTION:**

The first handheld cellular mobile phone was demonstrated by John F. Mitchell and Martin Cooper of Motorola in 1973, using a handset weighing 2 kilograms (4.4 lb). The first commercial automated cellular network (1G) analog was launched in Japan by Nippon Telegraph and Telephone in 1979. The first SIM card was developed in 1991 by Munich smart-card maker Giesecke & Devrient, who sold the first 300 SIM cards to the Finnish wireless network operator Radiolinja. Today, SIM cards are ubiquitous, allowing over 7 billion devices to connect to cellular networks around the world. Erstwhile Union Telecom Minister Sukh Ram and Chief Minister of West Bengal Jyoti Basu were the first two individuals to establish a mobile phone call in India, on Nokia mobile phones that were connected through airwaves operated by Modi-Telstra. On this day, exactly 25 years ago, a telephone call was made. In 1995, a few months after mobile telephony was opened up to private participation, Essar became the first company to start GSM operations in Delhi under the brand name, Essar Cellphones. A SIM card with a microprocessor base is similar to a mini-computer with its operating system, storage, and built-in security features. The SIM card can add, delete, and manipulate information within its memory on top of sending and receiving data. A SIM card can be replaced by users and slides easily into a slot within your phone or mobile device

A mobile phone is a telephone that can make and receive calls over a radio frequency carrier while the user is moving within a telephone service area. Telephones services use cellular network architecture and therefore mobile telephones are often called as cellular telephones. Modern mobile phones support variety of other services such as 'Text messaging, MMS, Email, Internet access, Bluetooth, Gaming Communication & Photography. Mobile phones which after these and more general computing capabilities and referred to as a "Smart phones" hence it become an indispensable tool as communication plays a key role in all the aspects of life. Today, mobile phones are equipped with features other than voice call that allow further communications and entertainments such as the Short message service (SMS), MP3 player, games, internet and videos which attracted people across all walks of life and consequently led to the increase in the number of mobile phone users across the world Sanjay D et.al.( 2010) .There are about 3.3 billion mobile phone users when compared to 500 million in the year 2000. F.Samkange-Zeeb, M. Blettner(2009). Indians are increasingly using the mobile phones rather than the land line telephones and Indian market has emerged as the second-largest market for mobile phone handsets next to China. In India, use of internet is enormous, especially in the young population. Mobile Internet usage is growing the rate of nearly 85% per annum Singh BM.(2008).

Mobile phone dependence can be considered as a new diagnostic entity as it has properties of excessive use, withdrawal, tolerance and negative repercussions Chandra G et.al (2012). Prakash S. Chougule et.al (2020) studied the pattern of cell phone users and service providers based on statistical techniques in kolhapur

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