

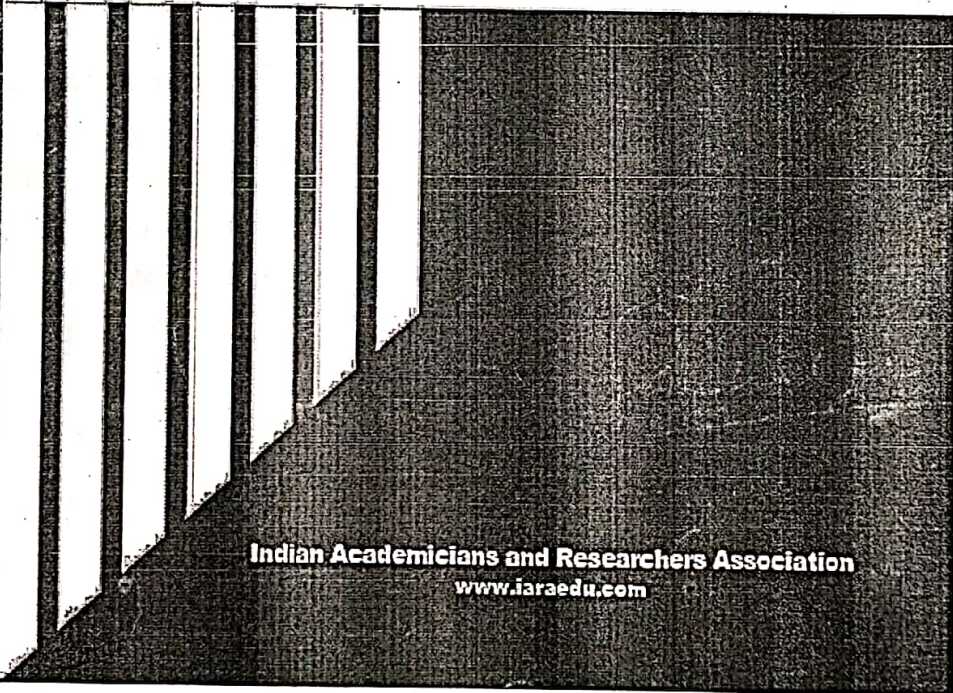
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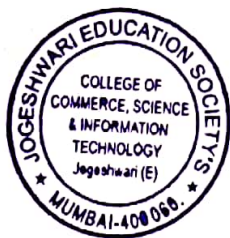
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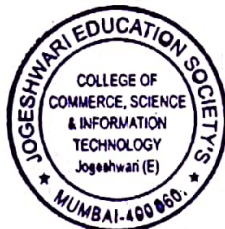


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STUDY AND EXPLORATION ON 5G TECHNOLOGY RUMOURS

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ABSTRACT

The objective of this paper is comprehensive study related to 5G technology and some rumours associated with it. 5G is upcoming generation of mobile technology which not only increases speed while watching movies on Netflix but also going to be implemented in health care, virtual reality and cloud gaming. While accepting the new technology, there will be fear in our mind about its impact. So for the same we will make use of Internet. After watching the videos and reviewing research papers related to 5G technology, you may get confused and may be assumed that rumours related to 5G technology are all true. So in this research paper, I tried to find scientific reasons related to rumours such as: (1) 5G technology has impact on Birds ecosystem (2) 5G technology is responsible for spreading corona virus (3) 5G technology causes Cancer or tumours (4) 5G technology responsible for global warming (5) 5G technology has impact on Airline services. (6) The radiation from the 5G tower is poisoning the air. (7) People can feel the current at home because of 5G. (8) 5G radiation creates dryness in mouth and nose. Every 10 years one new mobile technology came into picture which increase the level of mobile technology in terms of features and services offered. So in this paper will also discuss about Mobile network and all mobile technology developed till date and differences between them. We will also discuss facts and fictions about 5G testing and rumours associated with 5G testing.

Keywords: 5G, RAN, radio frequency, radio waves, mobile network, Non-Ionising radiation, Ionizing radiation

INTRODUCTION

First technology was 1G. which was introduced in 1980 because of which we will be able to talk on phone (Voice calling). this was the revolution in mobile technology. After this 2G technology was introduced. Which also provides the facility of calling with digital signals instead of Analog signal. It was launched in 1990.

The speciality of this technology is the messages which send via this technology will remain between two persons only(Privacy). This feature was not there in 1 G. This technology is first step where more importance is given on privacy.

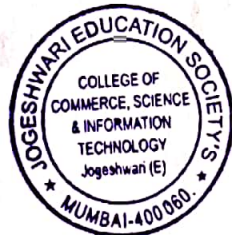
3G launched in 1998. This technology made our India as Digital India. Now different videos we are able to see on YouTube and can do video calling that is because of 3G technology only.

After 3G, 4G is launched in the year 2008 which increases speed of Internet. this technology also enabled features like HD video, Online gaming.

After 4G, 5G is introduced at South Korea in April 2019. This technology performs all the task performed by 2G,3G and 4G technology. Plus, its provide machine to machine communication feature also.

Speed of 5G is 100 times greater than 4G. 5G technology may also be known as Internet of Things in future as it used from car to bike means everywhere.

Technology / Feature	1G	2G/3G	3G	4G	5G
Evolution	1979	1990	1990	2000	2019
Deployment	1982	1992	2002	2010	2019



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