



THE EFFECT OF SCIENCE AND TECHNOLOGY PROGRESS ON SOCIAL INTERACTION IN COMMUNITY

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Abstract

Society and the social environment cannot be separated, as we know that humans are social beings who need each other. In the science of sociologists it is argued that humans are social beings who cannot live alone, humans must communicate and interact directly with each other. However, if we look at the existing facts, the social life of today's society, it seems that the term social being which has elements of direct interaction and communication must be studied and re-examined. Age and technology have changed the pattern and system of social life in modern society. Technology that is experiencing very significant growth explicitly has a very large impact on today's human social life.

Keywords : Iptek, Social Interactions, Public

Introduction

Science and technology at this time has progressed very rapidly. Science and technology has brought a big change in all fields. Such as the economic sector, the health sector, and what is quite visible is the social sector. Tech touch able to bring cultural acculturation of society. Personal freedom due to changes in social conditions can be seen from freedom of opinion, criticism, suggestions, and even insults and insults. Of course all this is the impact of development technology that can now be used by all groups. The conditions experienced by the wider community today demand an adaptive and responsible attitude. In fact, science and technology have also changed the social life of people at almost all levels and social strata. Change and development of society is actually needed in order to flow the social cycle. In this paper the author aims to explain: 1) Science and Technology and its development 2) The relationship between science and technology progress and social interaction. (3) Problems in interaction due to science and technology.

Research Methodology

The type of method used is a qualitative method with a descriptive approach and literature study. The reason for using this method is the author explains the topic of the literature search related to the title. The literature used in this article was obtained from journals, E-Books, and other relevant literature.

Result & Discussion

Science and Technology and Development

Science and Technology stands for science and technology. One can increase insight and knowledge in the field of technology by obtaining information through science and technology. According to Horton B, and Chester L, H Science is an effort to seek knowledge that makes sense and is reliable and can be tested systematically according to regular stages and based on certain principles and procedures. Meanwhile, technology is a means that provides the need for continuitycommunity life. Technology can also be said as a whole set of ideas, methods, techniques and material objects that are used in a certain time and place as well as to meet human needs. (Prayitno, 2001).

Since the development of science and technology in people's lives, social life has become more advanced. A lot has changed over time due to technology. The most visible change is the ease of obtaining information. Information that can now be accessed by anyone facilitates activities in all fields. Examples include finding materials and teaching materials for schools, looking for the latest news, looking for various tutorials to do something, and long-distance communication without any boundaries that can connect many people from anywhere. With the development of the times, it has brought humans from initially only using paper and pens to communicate, now they can use smartphones to transcend the boundaries of space and time in an instant. Even in the revolutionary era 4.0 which is an era where progress from technological development is very rapid dominate. This era is the era that produces modernity, where the process of progress is marked by economic growth, social mobility, expansion or expansion of the region. (Abraham, 1991) according to Rosenberg (2001), with the development of science and technology there are several changes such as:

1. From the educational side, the way of teaching has now experienced a shift from actually using books, chalk/markers and blackboards, to now being replaced by tools such as laptops, computers, and Infocus as media for delivering material. Also, from the location of learning which was originally based on the classroom, now it can be done anywhere in a separate place through meeting applications such as Zoom, Google Meet, Hangout, Teams, and many more.
2. From an economic standpoint, progress in science and technology opens international markets, increases the country's foreign exchange, and conveniences such as buying stocks and buying gold via M-Banking.
3. From the social side, changes occur in the way communication can now be carried out without direction and time limits, the ease of obtaining information, and the latest related news society is required to further improve their abilities and competencies, so that humans can balance themselves in this modern era. Science and technology is the beginning of the nation's success, because it can create something new that previously could not happen.

Since the development of science and technology, the nation has created many inventions and qualified and qualified human resources, thus the use of technology must be creative and wise. With the development of science and technology, it is now guaranteed that there is a system or by using internet media that can connect many people from different places in one meeting.

The Relationship between Science and Technology Progress and Social Interaction

Every human being during life must experience interaction. Interactions can be in the form of limited or broad influences, there are small interactions and there are large-scale interactions. The interactions that occur will involve social values and norms, patterns patterns of organizational behavior, the composition of social institutions, layers in society, power, authority and so on. Interaction that occurs in society is a normal phenomenon. Its influence can spread quickly to other parts of the world thanks to modern communications. Humans are basically social creatures, creatures that need each other. Obviously interaction is a social activity that must occur in every activity.

Positive impact

The more he advanced science and technology bring major changes to the activities of social interaction. Call it as previously explained that now humans can communicate without having to be limited by place and time. In the past, interaction could only be done face-to-face. Even if you can do it remotely, the media needed is still very limited and takes a long time to get a response. But now, thanks to advances in science and technology, interaction can be done anywhere, anytime, and by anyone. There are now many media and applications that facilitate interaction activities such as Whatsapp, social media Facebook, Instagram, Twitter and others. Even thanks to all the conveniences in this interaction, it is not impossible that someone can get to know people - even people from different countries, become close friends even though they have never met face to face.

Negative impact

However, not all influences lead to positive interactions. Not least the impact of science and technology progress on social interaction that smells negative. The emergence of social media and all effective and efficient communication tools is one of the factors that has resulted in the birth of individual and selfish human beings. People tend to do things that are more pragmatic for social interaction. Making direct social contact is assumed to be complicated, not profitable, a waste of time and even said to be out of date. Case examples are as follows: Communication and social interaction within a family, the environment both at home and at work seem more selfish and individualistic. At home, the mother is busy on WhatsApp with her friends, the father is busy with his

colleagues, the child is busy with Instagram and online games, so that each On the other hand, there is no intense communication, there is no openness between wife and husband, father/mother and children. On the bus, no one pays attention to the person next to them, they are busy with smartphones laughing and then replying to messages from their friends. They no longer see whether the people beside them are beautiful, handsome, ugly, terrorists, even seriously ill people, only those with social media.

The case examples above are enough to illustrate how science and technology can affect interactions between people. The emergence of this individualistic nature can lead to indifference to fellow human beings. With individualistic nature, people do not care about the life of the country. If in the past our national identity prioritized mutual cooperation, now we often meet them, for example in elite housing/complexes who do not necessarily know each other. From there, there is no concern, because if you don't know, it means you don't care.

Problems in Interaction as a result of science and technology

As previously explained, nowadays not all science and technology influences are in a positive direction. Even recently, what is often seen in the media and everywhere is more negative influences that enter into human life. Quite a variety of social problems arise precisely as a result of the increasingly advanced science and technology in people's lives. Examples of some of the problems that arise as a result of the progress of science and technology are as follows:

1. Interaction Ethics

The progress of science and technology creates freedom of influence and outside culture to enter and be accessed. Foreign culture that is accepted without being sorted/filtered is enough to bring bad influence in society. One of them is Ethics. Content that contains harsh words, pranks, etc. depicts a lack of ethics which is imitated by many people because the content creator is a well-known person/carries the same influence no embarrassed with his impertinence. Younger people will greet/bow down to their elders, say excuse me when passing many people, speak kind words, and many other interactions are now starting to fade. Many young people are lacking. Ethical in interacting with many people. Such as the use of a foreign language whose meaning is not good or lack of respect for elders. An example with the father & mother teacher. If you look at the past, the teacher was a highly respected figure, the interactions that occurred with students were only limited to assignments and in the learning environment. But now, thanks to the influx of outside influences resulting from the progress of science and technology, some now even consider the teacher not an important figure under the pretext of "education determinantsuccess". There is also a lack of manners in society. Like not asking permission to do something, cutting off the conversation without instructions, and so on.

2. Community Conflict

Social media as a part of the progress of science and technology can make a person or group have many followers and fans. Call it one of the Instagram applications. This application is not only able to bring in many followers in instant ways, but can also be a means of spreading influence or giving teachings. This can be a positive thing if diffused influence is wise influence. However, some people actually took advantage of this to riot. The influence that has spread makes it easier for the person to move the masses at certain moments. On behalf of SARA, they then carry out conflicts either with neighboring groups or even with the government. In addition, the lack of interaction from various parties usually exacerbates the conflicts that occur so that there are not only material losses but also victims who fall as a result of conflicts in society.

3. Social deviation

Interactions that are very easy thanks to social media make interaction in the real world less now. Humans are more busy with their smartphones than chatting with neighbors and local residents. So, this pattern of living will gradually create a lifestyle for a society that is eventually closed to the outside environment. His life is only focused on social media. The interactions they do seem unreal. Then came the distorted notions/teachings on social media. Call it an example of LGBT teaching Lack of interaction with the outside world causes humans to accept teachings without sorting or filtering them first. Little by little his thoughts changed plus interaction on social media with like-minded people eventually formed the character, personality and new traits of the human being into someone who likes the same sex, or an obsession with changing his gender.

Conclusion

Science and technology is an abbreviation of science and technology, which is a source of information that can increase one's knowledge or insight in the field of technology. Science and technology is the beginning of the

nation's success, because it can create something new that previously could not happen. Technological progress and its impact on our lives is something we cannot avoid. However, we can be wise about ourselves and society. These technological advances also have a considerable impact on lifestyles and patterns of social interaction.

Changes in patterns of social interaction caused by advances in science and technology divided into positive and negative impacts. The positive impacts that are presented are interactions that can be carried out without having to be hindered by space and time. As for negative impacts such as reducing interaction with the real world so that humans become individualistic and anti-social beings. And because of this negative impact, problems of social interaction arise in society, such as reduced community ethics in interacting with each other, conflicts that occur due to interactions that are lacking/misdirected, to deviations that occur due to interactions carried out by people who bring bad influences. But all of that returns to the man himself. Sometimes people think that technology is a destroyer. However, it comes back to humans because those who run the technology themselves are humans. At this point, one thing that many humans need to improve is their mindset. A strong and steadfast mental attitude, as well as the ability to find yourself is one of the special forms that are needed today.

References

- Article Technology AndCommunity Life, 3((1)), 1–12.
- Astuti, AP, Nurmalita, A., & Doni, rohma F. (2014). Communication technology and adolescent behavior. *Journal of Sociological Analysis*, 3(1), 91–
- Blingshine. (2013, September 11). Positive and Negative Impacts of Information and Communication Technology in Education, Government, and Economic Midwives.
- Mahpuddin, Heri. (2017, January 28). TECHNOLOGY EXAMPLE IN FIELD EDUCATION.
- Nasution, Z. (2011). Consequences of Social Media Communication Technology for Society. *Reform Journal*, 1(1), 37–41
- Rahman, A. (2016). The Negative Influence of Communication Information Technology Era on Youth (Islamic Education Perspective). *Journal of Educational Studies*, XIV(1).
- Saiful, NI (2019). The impact of globalization on lifestyle changes in the people of Komboi Village, Warsa District, Biak Numfor Regency. "Campus Echo" IISIP YAPIS BIAK, 14(2), 32-40.
- Uli, ODS (2020). The Influence of Technological Progress on Social and Environmental Behavior Child
- Wahyudi, HS, & Sukmasari, MP (2014). Article Technology and LifePublic.
- Yuda, "Positive and Negative Impacts Due to the Development of Internet Technology Pesona.com, "Scientific Writing on the Effect of Social Media on Generations Young." Son, Adhytia. "Etics In Use Media Social."