

Title of the paper

**Role of Science and Technology in development of Human
Society- A futuristic perspective**

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Abstract - Role of Science and Technology in development of Human Society- A futuristic perspective

One of the influences to Social change in our Society can be attributed to Science and Technology. All the inventions and innovations have created a platform for Social change which is evident when we speak about people working together professionally, travelling in public transport and sharing a table in the restaurants, coming out of the traditional casteist ideology which has resulted in positive environment and hence creating a chance for uninterrupted development. Looking at the kind of Social changes for the past 10 decades we can see there has also been a progressive change in Agriculture, industrialization, Education, communication, transport and so on. There is a tremendous change in the lives of people with regards to Socio-economic well-being and the standard of living. Though we cannot say this is the reality all over the nation, it can still be made possible by making technology available to the remotest part of country.

Evolving human Society

The world has seen change right from the time of its creation. There have been natural changes that have occurred much before man came into being but through scientific explorations human's beings have been able to find and record them. We evolved and learnt more about our environment and made alterations to it. As we developed, we also had control over other creatures on the earth, we developed skills of domesticating animals, farming techniques, hunting, textiles, water management, traditional medicines and so on. We have been innovative and have invented tools and implements which have made life easier.

Mean while institutions got created by man to keep order in the society. Humans also started to have control over other men in the society through creation of certain institutions which were discriminative. This gave rise to many social issues in the society- hierarchy, gender bias, unemployment, discrimination on the basis of caste and class.

Farmers and labour class

Farming itself is considered to be a science and farmers the scientists they know how to till the land, when to sow the seed, level of moisture required for the soil, and what type of grains to grow in which soil, use of natural fertilizers and so on. Farmers have for centuries been the feeders around the world. Indian farmers have been using from time immemorial various techniques in farming, invention of wooden plough, using ox to pull the plough, pulley to draw water from the well to irrigate the lands etc. Modern Science and technology has only made it better for farmers as it has eased the farmers from physical draining, faster ways to till the land with the help of tractors, harvesting machines and water pumped through electric motors to the

fields. This has created a better yield for the farmers, increase in the income, better standard of living and has hence helped reduce poverty among the farming community.

The burden of menial workers has also comparatively reduced as well, the men don't scavenge as in the past, which was a very inhumane way of treating and employing human beings to do such dirty and harmful jobs due to their caste distinction in the society. Machines are being used to a great extent for such jobs wherein the human interaction is minimal. The lives of the menial laborers have changed and they are now leading a dignified life in the society.

Science and technology in Industrialization and Social change

Industrialization and mechanization has contributed immensely in transforming our society, right from the kitchen equipments to heavy machineries used in industries. Human's day to day life moves with the help of machines, transportation, communication which connects us to different parts of the country and the world. As people are moving out of their nests and exploring the world outside, they tend to have a different kind of a view of the world moving out of their traditional value systems which sometimes has been an obstacle in human growth. Industrialization has created more employment opportunities, demanding for skilled labour force and hence encouraging men and women to seek education and knowledge and to send their children to schools and colleges. This leads to better prospectus, better wages, better standard of living, social mobility and increase in the social status. All this could only be possible due to newer inventions and innovative ideas to help move the human society into an equalitarian society

Science an instrument to tackle superstition- social change

In our society we have multitude of beliefs: blind beliefs and superstitious beliefs. Science helps us in having better knowledge about what is right and what is wrong, it breaks the myths around certain blind beliefs which have been followed through the ages with no proper reasoning and hindered the growth of human society. Scientific temper is required in understanding the myths with facts and to move out of false belief systems, paving way for the development and growth of human society, Science definitely helps in transforming the society for good and in influencing social change.

Education and social change

In the present times, as cities and towns are expanding and booming with opportunities more and more number of people from the rural areas are moving into cities, people from various parts of India are migrating in search of jobs and making a living. We can see “cross culture” in the work place where men and women from different sections of the society come together under one roof sharing ideas and opportunities leaving behind the traditional ideologies of social stratification and hierarchy. We can also see “Social mobility” of individuals from various sections of the society this could only be possible with the modern education which emphasizes on morals and ethical values helping the society to move forward with the sense of oneness, in creating a non-discriminative society.

Science, Technology and Women

Women under the patriarchic regime for many decades are dropping off the chains of control and heading towards a realistic future. Women have choice in education, sports, life partner and so on..... even.... aspirations.. From being home makers to taking up a political career, to being entrepreneurs, doctors and teachers they are in every field. Science has been able to help women to cope up with their struggles; Women carrying pots of water on their heads walking miles entire day would go in this exercise ., Science and technology has made it possible send portable water to their homes. Now women can get to schools and take up challenging jobs on par with men, and add on to the labour force of the nation. Women comprise of 48% of India's total population. The socio- economic and political status and moral of women has increased and hence they can enjoy equal opportunities in society.

Social change in a futuristic perspective

As we have learnt in above paragraphs on how Science and Technology has influenced rise in the status of men and women from different sections of the society creating a non-discriminative-equalitarian platform for all. Science and technology will definitely pave way for better changes in the society for the good of all mankind unless and until the same is used in a positive way for the development of human society. Though in reality we know that a huge percentage of Indians are stricken by poverty or are daily wage earners or landless farmers earning less than one dollar per day and are not able to afford one square meal per day, causing malnutrition and starvation deaths. This sometimes forces the family members to get into flesh trade and other illegal activities giving rise to crime rates posing a threat to the society. The future of human society is

to have a peaceful and harmonious living with each other can be achieved through making available the technology to the remotest part of the country. Science and technology helps saving lives, increase in birth rates and decrease in death rates, better health facilities, increase in life span, invention of medicines to cure many diseases. The healthier the nation the better is its prospectus of growing and creating a better future for its citizens. Improving the educational institutions and making it available to all individuals adding moral values keeping the core idea of well-being of all, respect to all and equal opportunities and in the whole value to human life. Yes! Science and technology does help in creating Social Change.

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