



IMPACT OF SCIENTIFIC & TECHNOLOGICAL DEVELOPMENT ON FAMILY RELATIONS AFTER 2010 (WITH SPECIAL REFERENCE TO THE FACULTY & STAFF MEMBERS OF RSGU PG COLLEGE & INTER COLLEGE ; PUKHRAYAN)

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Within 100 years of span of time, the human race has established magnificent landmarks in field of science and technology. In 17th century, James Watt had invented the power of steam and that was so powerful that had affected the whole scenario of the then world. Before that the whole world was under the feudal structure and the whole part of governance was directly related to agriculture and agricultural land. But, as soon as the steam power had been used in the fabric industry replacing handlooms by power looms, world, particularly west has compelled to face change in societal affairs and especially in, economical scope of the society. The new forms of economic relation had made up the heavy pressure on feudal structure and the system could not reside before it and fully shattered. By the result of that, Capitalism had came up with the new option for the state's political and economic structure. In the 18th century, the foreign, political and trade related policies were fully governed by the new ideological option for the society i.e. Capitalism. In this era, we found placid contestation among the western countries like England, France, Holland and others, for making their colonies in the Asia, Africa and America continent. It can be easily seemed from the phrases that the sun never set in the Empire of Crown of Queen of England. This shows the intensity of the race for capturing more and more market in that era for their respective productions.

The above mentioned turn in world history that has been caused by the continuous development in the field of science and technology, in form of energy, which had been started in the 17th century. But after world war first, this development was increased with high speed especially in the area of war and contemporary enmity among the western countries. The limit has come forward with extinct of human race as Fatman atom bomb had been dropped by America over its contender Japan in world war two at Hiroshima and Nagashaki on 8th august, 1945. This was the most black day in the history of mankind. After world war two, there were some diversion on value of development which had been struck with the world war first, now after world war two with establishment of UNO, the thought of welfare of human race has become the main goal of development. Therefore, whole picture has been changed with the change in the scope of development. Whole emphasis of academics has taken U turn from destruction of human race i.e. war to welfare of human race.

There were one more change has been arises in political scope i.e. democracy with the rise of America in world war two. After second world war the world political system has become bipolar, i.e. one front had been led by USSR of communist ideology and the democratic front led by USA. Both fronts are same in their respective goal to enhance the the comfort level of their people, but their way to achieve it is different. In

communist front, the government has full control over the whole capital and discourages the private entrepreneurship, on the contrary to it other encourage the private effort to create economic infrastructure of their country. After World War 2, both front had indulged in a cold war to create their group stronger than other and this cold war had lasted till the 1990 and ended with the liquidation of power of USSR.

India has adopted democracy mode for rule over Indians, but in till 80`s India had best relations to both the ends of world powers. Just after independence, India has adopted 5 year plan methodology to enhance the leaving standards of countrymen. Due to that now after 75 year of her independence, India is in the race of developed Nations. India has accepted many discoveries regarding development from west and many others created with indigenouseffort like enhancing agricultural production through green revolution led by S. Swaminathan. Here, in this study we are taking impact of some developments in the field of electricity, winter and summer appliances, communication modes, media and other mode affecting directly the social relations and causes the social change in the society. But before that we have to discuss the development first.

When Human being were residing in the forest with other animals and they had invented fire, as a form of energy, for first time which had covered their fundamental requisites like food and security rather security is prominent. Before they were eating raw meat like others in the forest, after there were became familiar with fire they had started eating cooked or baked their before eating and that incident had made for very first separation between human and other animals in the forest. This is a very first development which has created the journey of cultural history of human race. From this we can derived the most simple definition of the development as the act by which human became unique among all living things and can be called civilized. L. T. Hobhouse has also define development in very simple words that any progress related to human. It means all activities related progress can be said as development. J A Pansio has defined development More specifically in terms of social structure and social relations, which made the whole society so capable that it can fulfill all requisites of its members. Here Pansio has tried to relate development with the fulfillment of all aspiration of member of society through social structure and social relations.

What we have today can be easily understand through Marxian approach toward development. Marx was of the view that each and every aspect of worldly life can be equated in terms of means of production and forces responsible for production. As for as legal and political as well as culture and religious structure is fully dependent over economic structure. Economic structure is made of systematic summation of production forces and relations. So the quest of strong economic structure lies under the scientific and technological development in the recent past and still going on.

Scientific and technological development is not very difficult to under stand, because the invention of fire is also lies in the category of scientific and technological development. So we can say that each thing which improve and facilitative for human life, can be lies in the category of scientific and technological development. Increase in limits of human aspirations, create more scope for the development in the field of scientific and technological. In early 20th century, the imperialism was mounted over every aspect of foreign relation, therefore in early 20th century, there were more emphasis over development of war heads and both world wars are the result of this ideology. But after world war two there is great change occur with reference to prevailing ideology i.e. from destruction to creation or welfare of the people. Now the main emphasis has been shifted from imperialism to welfare of people. For example rural development, medical and health, globalization, connecting mediums such as transportation & mass media, labour saving devices like kitchen appliances, computer, conversation devices, etc. there is not only change in the mentality of scientific and technological development, but also affected the prevailing social relation. For example, in feudal system, joint families were required and essential for agricultural works, but as capitalism replaces feudalism, personal qualities were gaining more importance and role of families were gone down. So there was a change in the structure of family i.e. there is transformation from joint family to nuclear family. There fore we can say that there were changes occurs in the premises of family and its relations. Relations are also dependent on physical environment of the society.

When fire was invented then whole society had got benefitted with this and it must be affected the existing social relation. Similarly when steam power had been invented it affected the whole social, political and more over economical relations prevailing in the era of 16th & 17th century. For example, the feudal system was prevailing in this span of time and the social as well as family relations were also existed as per this feudal system. but with the capitalism, there were spared in the field of urbanization, type & means of production, industrialization, modes of market, individualism and e.t.c.. Therefore, we find drastic changes in economical relation which determined the other scopes of relation spectrum such as social relations, religious relations, political relation, etc. in the figure below the changes are described as-----

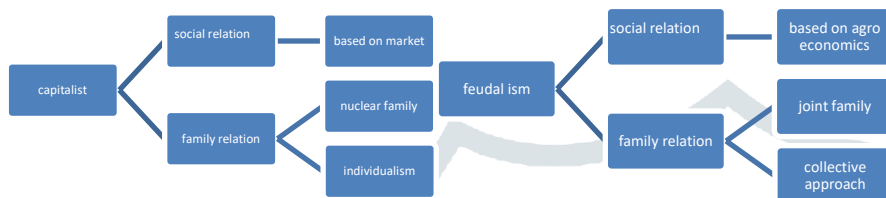


Figure: 1.1

In the fig 1.1, it was shown that how economic system affected the social as well as family relation. Similar change has been occurred in other fields too like religious, political, cultural and etc, but since in this expansion, we are dealing with family and social relation, that's why, here we are taking into consideration the impact of development under science and technology over the social and family relation. The items under considerations are communication, home appliances, mass media (social sites) and etc.. in my study I will tried to make comparisons between new modes and traditional modes to reach the conclusion of my work. For this I has been taken faculty members, office staff and students of R.S.G. U. PG. College and R.S.G. U. Inter college as universe for my study, because these guys are well acquainted with scientific and technological development. Both the colleges are located in pukhrayan, Kanpur dehat, Uttar Pradesh. Pukhrayan is a small market town situated 25 km south- west to Mati; Akbarpur, District head quarter of Kanpur Dehat, on Lucknow -Kanpur – Jhansi national highway and 65 km from kanpur. It's an industrial area therefore there are all scientific and technological development available and people are enjoying those new discoveries and handy for the people of my universe.

For convenience of study and questionnaire I have divided my work on some heads like-----

- 1) Mass media & Smart Phone
 - 2) Kitchen appliances
 - 3) other appliances
 - 4) academics
 - 5) Traditional modes
- **Mass media & Smart Phone**

Here we consider only those part of mass media which is generally used by common people and particularly operated by their smart phones. I asked regarding social sites like What 'sup, Face book, Instagram, Twitter, etc.. Normally people are handy with use of face book and What `sup, they are started using these sites due to official information or educational helps like online classes. But now the people are using it in their daily life routine work such as good morning and good night messages or to convey their messages on occasions or festivals. There is a teachers group on what`sup of both colleges and they are frequent good morning messages uploaded every morning. It clearly indicated that every body have their phone with their respective bed tea. Similar thing happened with college staff and students too. Some professors are sharing a number of YouTube videos in their daily routine and some are sharing

political post on the group. It clearly indicated that people are using mobile phone at regular basis for not less than 3 to 4 hours. Some of the teachers are also sharing useful material and information such study material, ugc regulation, salary related, etc.. student are normally out of track, their sharing post are related to cricket or other sports or song or vulgar item or photo graphs. One more important aspect regarding boys that they are also enjoying gambling on online mode especially on game of cricket (IPL). Every except one common thing that they are using their phone at their bed in night for 20 minute to a hours, then they go for sleep.

Every guys are fully aware regarding the harms of mobile and its frequencies either 4G or 5 G. Everybody, accept it with ease that more watching things on mobile have bad impact over their eyes and its frequencies affected our mind setting. Even government also tried its best to aware people from side effects of cell phones. The International Agency for research on Cancer (IARC) has classified Radiofrequency radiation (RF) as a possible Human carcinogen, which is a agent that causes cancer. Government of India has informed their citizens regarding the issues caused by RF radiation to common health, but besides that day after day, there is vast increase in the number of cell phone users. Government also aware people and giving tips of safe use of cell phones time to time and these are as

- i) Get hand free head set that connect directly to your phone.
- ii) Use speaker phone more often.
- iii) Put your phone away from your body, because frequency of heart and mobile are not matched.

Besides all these, people are very fond of using cell phones and even they are spending more and more their time with mobile, which is harmful for all type of social relations and great hindrance in the path of development of personality and socialization.

- **Kitchen appliances**

It is also have very significant role in family which also have very negative effect over family as well as social relation and one of the reasons behind the disorganization of joint family structure particularly in India. Some decades before, there were many traditional kitchen equipment like Sil- batta, Chhaki, kitchen stove, okhali, dhheka (for making rice), iron stencil, etc., which are commonly used in Indian kitchens merely three decades before. But these traditional equipments are replaced by modern equipments like mixer & grinder, gas stoves, cooker, micro wave, Fridge, toaster, sandwich maker, floor chakki and so on. This makes many benefits for women in making food like time saving , health benefit specially eyes are protected from smoke and others. But during my study I found that the people are missing Chulhe ki Roti, matke kid al and sil ki chatni. They guys are badly missing these taste and taking about it with great joy. All the respondents are used to with these modern equipment. Some people have still using sil batta in their houses but very few, since it is a rural area otherwise in our cities these are out scene from their kitchen. Most of the people are in favor of traditional equipments and their taste, but due to time saving they are not using those at regular basis.

Sr.no.	Traditional	Modern
Taste	More	Less
Healthy	More	Less
Time in making food	More	Less
Uses	40%	60% (time)

Most of the people are of the view that old stencils and equipment are not only for used in making tasty food but also nutrients like iron, silica, protein of grains are gained in making from it. For example, if vegetable are made in iron stencils then the prepared food must have more iron and other nutrients than cookers, which is very

necessary for development of our body. People are also of the view that traditional package house hold equipment supporting the good health of women, for example, grinding spices on Sil Batta and making of wheat flour on hand chakki has dissolved bally fat and also making strong wrists of female. These are supporting statements but only time saving quality of modern equipments makes it upper hand over traditional.

- **other appliances**

This is directly related to the development of science and technology. For creating ease to human race science work for it for providing short time relief to human. There are so many modern equipment which increases the comfort level of living for example blower, Air conditioner, Air cooler, electricity, auto mobile & means transportations, computer and etc. no doubt these are providing relief to human to lead their lives. But this relief is purely short term because if we consider uses air conditioners, it will save us from horrific heat but that heat is also created by this modernity such as CFC gas has been emitted from Air Conditioner and blowers and when it goes up in the environment it dissolve the Ozone at outer surface of environment and cleared the way of ultra violate rays from the Sun to the earth. Main function of ozone lyre is to reflect back the ultra violate rays to space and save Earth from its side effects. These rays are responsible for raising the temperature of earth due to that snow at the high altitudes is melted and sea level increased day by day and there is a great danger to existence of those establishments which are situated at sea shore like Maldives, Sri Lanka, and Mumbai in India. This will be great harm to humanity and it will be long term out come of modernity. This is global complication created by modern technological implements, at the same time, it is also very harmful for those who are crutch on it. For example, if a person using regularly air conditioner, after some times, he must have the complications regarding boons. That is to say that his boons are going to be feeble after continuously use of it. Similarly, refrigerator is also normally used to preserve food and other comestible items, but actually the test has been after 6 to 8 hours preservation. It means there must be some chemical deformities has come to food under preservation. Normally remaining mated wheat flour has been put in refrigerator in Indian kitchen, is was precluded by Hindu Texts as well as by the medical consultants too. But normally it is practiced in Indian kitchens.

- **Traditional modes of living**

While my study, I came to know that normally people are in favor of tradition mode of living and repeated the ideology of simple living and using all modern outfits for satisfying their and their families comfort of living. For example, “Chulhe kee Roti” is preference of all, but it is not feasible in urban environment, common words used by people . similarly, other traditional means of living are also likes of people, but they are not in condition to use those. In metros it is very part of fashion to have desi items in their daily use. For example, it is in fashion to have millets in their cuisine and Mota Anaj now days become item of status symbol. Even people are like to have biscuit made of millets like nutria choice. Amazon grocery is full of organic food and comestible items cooking oil, rice, wheat, pulse, milk & its product, chia seeds, ghee, salt and etc. morning walk and work out become integral part of daily life of people. In my study I found that students, boys and girls both, are interested in daily work out due fulfill their life goal i.e. jobs like Army, Air Force, Police and other forces. At the same time, the teachers and other service man are also have great motivation towards morning walk and daily workout. Some of teachers are going for morning walk at railway platform, which is 800 meters long, since pukhrayan has not have any such ground or park therefore people to walk over platform or road only. some of them are playing badminton in different sports clubs. This is a very small town but it has 6 to 7 badminton courts and people have keen interests towards this game further more, besides badminton volleyball is also very popular game here. Some teachers have yoga in their daily life and follow yoga instructor like Baba Ramdev. I also noticed some guys performing yogic aashan after their game. Yoga is a traditional form of work out. One more thing must be stated here i.e. normally people are with their families or friends on their daily ways of work out.

so we can easily observed now a days people have very keen interest towards traditional mode of living due to health issues like life style diseases and also regarding enhancement of their social status. For example, now a day, people are liking to sweets made of dry fruits, there is no condensed milk nor sugar in it and costed Rs-2500 per kg or preferred such sweets which are free from Khova or mava and sugar and made of grains. So people are running behind organic foods and comestible items, it is just super reality as feathered by social media. There are different type of videos and reels uploaded on social media which directed and determined the life style of the people.

There is great role of energy in development history of mankind. Since for very first time, when man were acquainted with use or uses of fire, which is a form of energy, that had turned the whole life style of human and for very first time in history of life on earth, human had become some thing different from the animals who still lived in the forest. In other words, the human had achieved different identity than other habitants of forest. I assume that very first use of fire must be for security and then for other fundamental requisites as described by Mc I Ver in his famous writing "Society" as seven fundamental needs as food, cloth, security, metabolism, health, movement and reproduction. It is common in the history of human being that energy played very important role upbringing changes and development. L. White has also said that development of humankind is due to energy. Similarly, James Watt had discovered the power of steam that had changed the whole scenario of the whole world, particularly western zone. This shows that energy is the main factor behind the development and it had change the relations all over, societal setting, importance of group and ultimately, changed the whole pattern of relation between man to other member of society in general and family particularly. Similarly what we had noticed in 20th century, is role of development of science and technology.

Now a days, the electronic gadgets are controlling the family as well as social relations. For example, the smart phone are very common and on every hand of the family members. Everybody has their own identity on social media platform and maximum time has been given by them on it and even manipulate more time space for it. This manipulation is not possible from the official time span, therefore, in free time at home, this can be manipulated easily. This manipulation cut short time of family relation. Since each people of family need more and more time for social media, therefore, there is a distance has been created between the family members. Therefore, we can say that multi media or social media whose resolution is to bring the people of world more closer & closer, actually did the job of separating family members. That is, the cause of this development has not been fulfilled and rather it opposes the cause of that thought which creates it. That means the definition of development has not been organized well because it is not going well.

This is not happened with social technocratic approach of science and technology, but other things like Air condition also played role of decreasing ours immunity system during covid pandemic. Those who are closed to Nature are safe in this pandemic because of their strong immunity system. it clearly indicated that development with respect to science and technology has affected our inner strength. That clearly indicated that it is not sustainable, which is a current issue of debate on Global platform and UN suggested a plan for sustainable development and all the developed and developing Nations are accepting the plan of UN and very busy in making plan for it which sustain with our future generations.

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