

Science: Does it restrict our motion?

Prof. N. B. Manik
Professor of Physics
Department of Physics
Jadavpur University
Kolkata – 700032

Edited by :
Sri Sudipta Sen
Research Scholar, Physics Department, JU

Being associated with University teaching I have to read some books on history of science, technology etc. Also being a social person I hear people talk about science. Out of curiosity, once I had gone through the Wikipedia just to see the recent view on science. Seeing all the ideas about science, it appears to me that there is some scope to say few lines about the idea of science and also its relation with other subjects.

Recently more than 5000 subjects are being studied by more than 6 billion people. Each and every subject claims its superiority. Our professional ego is also attached with it. One should be careful in defining a subject in such a way so that it can be differentiated with other subjects even at the time when we are talking about the interdisciplinary studies.

Science and other subjects:

For any creativity one must have a curious and sensitive mind to interact with the nature around us. For creativities in any field like dance, music, painting, writing poetry or doing science one should definitely have a sensitive mind. Every creativity has its special meaning and importance. In this context I can say science is quite different from other subjects due to its specific message. Scientific finding, which has come from experimental verification, has a definite and unique message. Uniqueness and openness are the essential features that differentiate science and other subjects. When one is performing a dance or music, it has

different meaning to different people. Example of extreme free form of expression may be either dance, music or painting. The artist/creator creates it to convey one message but it may bring different meaning to others. Leaving the dance or painting, when one is writing a poetry, the message is little bit arrested though there is still different meaning for different persons. This message is gradually being arrested when we switch over to a prose and to a official letter and finally, a letter of a lawyer. By the draft of a lawyer, we like to convey a specific message. But again, it is not specific comparing the language of science. This message is absolutely restricted in science. Whenever I am mentioning a formula means it has no ambiguity and irrespective of people, place and time, this is unchanged. We have to accept it.

I have just mentioned about the unique message of science. I am not mentioning which subjects are good or which are bad. Creativity is always important in every sphere. But I just like to say that scientific findings have a unique message. It has some special appeal to resolve many ideas or debates. Even after satisfying the emotional mind, the logical mind should be satisfied. Without satisfying logical mind it is not possible to extend our mind after a certain level for which all the creativities come. Freedom or freeness of mind will not come. Apart from all the advantages of scientific study available in text books, I will mention some other points. Based on the scientific method one can formulate a stable and secured society. One can communicate people any where in this world with the language of science without any ambiguity.

Development of science:

In a few words I will mention the way scientific understanding is developed. Before the development of science people could not explain different natural events, particularly the natural calamities that came to him. According to his logical sense and existing knowledge at that time he assumed that, behind all these events, there is some power. When this power gets angry for the misbehaviors of the human beings, these natural calamities come as a punishment. There were many fights to come out from such ideas. Scientific knowledge played a major role in this context.

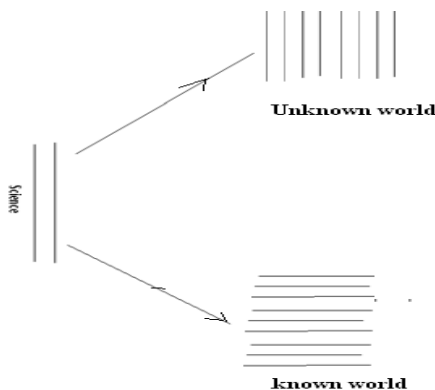
Advantages with scientific development or problem if scientific culture declines:

As mentioned, scientific knowledge has the power to resolve many issues. When scientific culture/knowledge declines, definitely many other disturbances arise. Without the scientific

findings one can put different opinions about one issue. Due to scientific findings we are bound to accept it. From the pre-historic times, one finds that conflicts exist between conventional ideas and scientific findings.

I will not extend this discussion. I am mentioning just to have some idea to correlate the importance of different subjects. On particular interest on any point may be elaborated. It is quite true that all of us should accept one field as our specialization. We should also follow our academic structure of the society. Based on scientific knowledge, different subjects on technology has been developed to make life stable, secured and comfortable. Again based on that so many other subjects on finance, management, amusements, business, personalities have come. Since those subjects have some practical importance of our day to day life in a regular way, there is a chance to lose the importance of scientific knowledge or the science will be redefined in a wrong way leaving its own appeal.

I will use one schematic diagram to highlight importance of science. As mentioned, science can resolve many issues and we can get ideas about the unknown world around us. Due to this scientific knowledge, some portion of this unknown world will be known to us and the remaining will still be unreached. Struggle will be there to know more and more about this unknown world. journey should not be stopped just by getting some comfort of this known world. May be there is a chance for getting much comfort in this journey.



Without scientific findings it is not possible to know about this unknown world and to extend our mind. More and more knowledge means one can expand his life accordingly. At every point, there is different charm and beauty.

Does it restrict our freedom?

Since science convey a specific message, the important question will arise whether science arrests our freedom or not. Sufficient discussion is needed with example on this point. If it arrests our motion, then again question will come whether it is desirable or not. Of course, scientific findings as it is based on experimental verification, restricts our freedom. Restriction of freedom is needed. Whenever we move on the road leaving its surrounding means our freedom is restricted.

Scientific methodology and other methodology :

There is also a basic difference to study science and other branches of humanities. Since the scientific people are being guided by the experimental results and instrumentation, so it is not possible to go in the wrong way for a long time. Automatically one will be guided by the instruments based on which the scientific findings come. But in different subjects on humanities one should be very much prudent/ careful to handle any problem. There are sufficient chances that one may be misguided since there is none to guide him. In the name of helping people there will be reason for creating disturbances to others. Unnecessarily one will be forced to use excess ego, power and all other stupid tools.

Limitations of science:

I have used many good words for science. But science has also its limitations. I will skip this part for the time being. I will just add one sentence. By using science one can predict the incident but the reason or the purpose of the happening of this incident and its necessity can not be described.

Conclusion:

There is long standing debate on these issues. In this note I just like to say that science has a specific and unique message. This can really expand our mind. But some time due to many other

social pressure there is a chance for science to lose its merits. To uplift the spirit of scientific discussion will always be meaningful. Before concluding, I will say that the spirit of any discussion is to find all the possible ways to move from one point to another. From the discussion it should be revealed that the straight line is the minimum distance between the two points. Not to get this information from the discussion is definitely the weakness of the discussion. But to tell any one to follow only this straight line path, since it is the smallest distance, is not the essential role of any discussion.