ISSN: 0975-833X

Available online at http://www.journalcra.com

International Journal of Current Research
Vol. 9, Issue, 06, pp.52936-52937, June, 2017

INTERNATIONAL JOURNAL OF CURRENT RESEARCH

REVIEW ARTICLE

ANALYSIS OF PHYSICS IN RELATION WITH SOCIETY

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ARTICLE INFO

Article History:
Received 03rd March, 2017
Received in revised form
14th April, 2017
Accepted 24th May, 2017
Published online 30th June, 2017

Key words:
Physical relation society norm relatives theory mechanics quantum theory and practical aspects.

ABSTRACT

Our society intimately linked with physics because discoveries affect it, like communication(telephones, telegraphs, teleprinter, antennas and other telx) enable us to quickly exchange messages between far up places. Curriculum is running new in class-11 with five branches:- 1-Mechanics 2-Thermodynamics 3-Electromagnetism 4-Relativity 5-Quantam mechanics. In physics there is close relation between theory and practical. The degree of impact of physics on the society can easily be gauged from the different products, which is simplify the life, it will be no exgeneration, if we say that science in general and physics in particular has the potentiality to eradicate poverty and hunger completely from the surface of earth and to user in age of prosperity.

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Citation: Dr. Narendra Kumar Singh, 2017. "Analysis of Physics in relation with society", *International Journal of Current Research*, 9, (06), 52936-52937.

INTRODUCTION

Bertand Russel:-"Almost everything that distinguishes the modern world from earlier centuries is attributable to science." The word 'Physics' has come from a Greek word 'fusis' which means nature. Man has always been curious to know about the nature and the natural phenomena taking place around it about 400 years ego, many people believed that they lived on stationary earth, which itself is situated at the centre of universe. Solar system was misery at that time. The sub microscopic domain of atoms and molecules was completely unknown. These 400 years have passed merely like a blink of an eye in the life time of human race. Standing on the shoulders of Physical science has discovered complexities of nature. The physics based discoveries has touched every fact of life. Today, whatever we know in the field of physics can be described and understood with the help of the following five theories.:-

1. Mechanics- The theory of motion and material objects in low speeds.
2. Thermodynamics-The theory of heat, temperature, and the behavior of system of a large number of particales.
3. Electromagnetism-The theory of electricity, magnetism, and electromagnetic radiation.
4. Relativity-The theory of invariance in nature and the theory covering the motion of high speed moving particles.
5. Quantam mechanics- The theory of mechanical behavior of sub-microscopic particles.

Above theories are a setup that helps to explain a natural phenomenon or the behavior of a natural system on the basis of the established laws of nature. The present day physics is the result of pioneering work of great scientists of the world, namely Newton, Albert Einstien, Max Plank, Neils Bohr, J.J. Thomson, Michel Faraday, Enrich Fermi, Homi Jahageer bhabha have also make significant contributions in the development of Physics.

Physics in relation to society

The fate of society is intimately links to physics. It is because, whatever is thought us discovered in physics, it immediately affect the society. The advancements in the field of communication radio and television have made it possible to have instant communication with the other parts of the world. The launching of satellites into the space has totally revolutionized the concept of communication. One can instantly see anything happening in any part of the world Microelectronics, lasers, computer, superconductivity and the nuclear energy have bought about a profound change in the thinking of living style of human beings.

The degree of impact of Physical Science on the society

The degree of impact of science on the society can easily be gauged from the following words respected to have been said by the great scientists and thinkers:-

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"Every theory which urges men to labour and research, which excites acuteness and sustains perseverance is a gain to science, for its labour and research which leads to discoveries."-**Liebig**

"Every scientist is constantly confronted with the problem of objective description of experience, by which we mean ambiguous communication."-**Neils Bohr**

"Science is the ever unfinished quest to discover all facts, the relationship between things and the laws by which world runs."-**Gerald Holten**

"Science is the method for describing, creating and understanding human experience."-**R.Bruce Lindsay**

"The task of science is both to extend the range of our experience and to reduce it to order."-**Neils Bohr**

"Science is not a collection of laws, a catalogue of unrelated facts. It is a creation of human mind, with its freely invented ideas and concepts….The reality created by modern physics is indeed , far removed from the reality of early days."-**Albert Einstein**

"I would like not to underestimate the value of the world view which is the result of scientific effort. We have been led to imagine all sorts of things infinitely more marvelous than the imaginings of poets and dreamers of the past."-**Phillips Feynman**

"The two processes, that of science and that of art are not very different .Both science and art form in the course of centuries a human language by which we can speak about the more real part of reality."-**Warner Heisenberg.**

"Nature is pleased with simplicity, and affects not the pomp of superfluous causes."-**Issac Newton.**

"We have no right to assume that any physical law exist, or if they existed upto now, that they will continue to exist in the similar manner in the future."-**Mac Planck**

"We know very little, and yet it is astonishing that we know so much, and still more astonishing that so little knowledge can give us so much power."-**Bertrand Russel**

"It is more important to have beauty in the equations of physics than to have them agree with experiments."-**Paul Aderien Maurice Dirac**

"Continuous beta spectrum-oh, that's a problem like the new taxes; one had best not think about it at all."-**Peter Debye**

"Whatever nature has in store for mankind, unpleasant as it may be, men must accept for ignorance is never better than knowledge."-**Enrico Fermi**

"I am become death, the shatterer of worlds."-**J. Robert Oppenhiemer**

"I do not know with what weapons world war 3 will be faught , but world war 4 will be faught with stick and stones."-**Albert Einstein**

"Nature has given us astrology as an adjunct and ally to astronomy."-**Johannes Kepler**

"Astronomy compels the soul to look upwards and leads us from this world to another."-**Plato**

"The most incomprehensible thing about the world is that it is comprehensible."-**Albert Eienstein**

"That's one small step for men, one giant leap for mankind."-**Niel A.Armstrong**

It will be no exaggeration, if we say that science in general and physics in particular has the potentiality to eradicate poverty and hunger completely from the surface of earth and to usher in an age of prosperity. However, if the laws and discoveries of physics are not used in a responsible way, it may prove a curse for the society. Nuclear weapons can destroy the whole humanity in no time.

Conclusion

Physics is the must basic of all the sciences and it has played a vital role in the development of all other sciences for human beings. The study of lever system has developed helped to design a large number of very useful machines. Thus it is clear that the major advancements made in technology can use safely attributed to the applications of physical phenomena. If we say that science in general and physics in particular has the potentiality to eradicate poverty and hunger completely from the surface to earth and to usher in an age of prosperity. However, if the laws and discoveries of physics are not used in a responsible way, it may prove a curse for the society. Nuclear weapons can destroy the whole humanity in no time.

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