



## “Nanotechnology: A Multidisciplinary approach”

<sup>1</sup>Priyanka, Extension Lecturer, G.C Safidon

<sup>2</sup>Vikas, Student, M.DU. Rohtak

**Abstract:** Nanotechnology is an emerging branch of science for designing tools and devices of size 1–100 nm, with unique functions at the cellular, atomic and molecular levels. Nanotechnology combines solid state physics, chemistry, electrical engineering, chemical engineering, biochemistry, biophysics, and materials science. It is thus a highly interdisciplinary area – integrating ideas and techniques from a wide array of traditional disciplines.



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**Introduction:** Nanotechnology literally means any technology on a nanoscale that has applications in the real world. Nanotechnology encompasses the production and application of physical, chemical, and biological systems at scales ranging from individual atoms or molecules to submicron dimensions, as well as the integration of the resulting nanostructures into larger systems. Nanotechnology is likely to have a profound impact on our economy and society in the early 21st century, comparable to that of semiconductor technology, information technology, or cellular and molecular biology.

### The Structure of Nanotechnology

Nanotechnology is distinguished by its interdisciplinary nature. For one thing, investigations at the nanolevel are occurring in a variety of academic fields. More important, the most advanced research and product development increasingly requires knowledge of disciplines that, until now, operated largely independently. These areas include:

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