

## **The one day program for Nanotechnology course**

09:00 - 09:30	Arrival and introduction to the course
09:30 - 10:00	Introduction and History of Nanotechnology
10:00 - 10:30	Why Nanotechnology
10:30 - 11:00	Coffee Break
11:00 - 11:30	Production and Characterization of Nanotechnology
11:30 - 12:00	Tools and Techniques
12:00 - 14:00	Lunch
14:00 - 14:30	Bio-nanotechnology
14:30 - 15:00	Health and Environmental Concern
15:00 - 15:20	Coffee Break
15:20 - 16:00	Quiz, Discussion and Concluding Remarks

## **Course outline for Nanotechnology**

The course covers the history of the field, description and definition of the term nano, and discusses the implications for future development on science and society. It will explore some of the potential benefits expected from this new field including smaller but more powerful computers, internal medical monitoring, foods, and new methods of cleaning up environmental pollution. Additional focus will be on the production and synthesis of nano-particles and characterization by electron microscopy. Some attention will be given to bionano-technology and its future application. It will also explore some potential risks various groups foresee including health and environmental risks and ethic consideration for nano-materials in consumer products.

### **Who will benefit**

Since the course will provide a comprehensive introduction to every aspect of nanotechnology, this course will be beneficial for people involved in development technology, education, research and industries.

### **What you will learn**

After completing this course, the participant will be able to understand the vision and concept of nanotechnology, its potential application in our daily life and its impact on our environment and health.

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