

PROGRAM STRUCTURE

Introductory Program in Nanotechnology

We have divided the multidisciplinary field of Nanotechnology into five modules.

Introduction to Nanotechnology Vol. 1

Module 1: Fundamentals of Nanotechnology

- Unit 1- Historical Aspects of Nanotechnology
- Unit 2- What are Nano & Nanometer?
- Unit 3- Nanoscience & Nanotechnology- Definitions & Components
- Unit 4- Modern Aspects of Nanotechnology
- Unit 5- How will Nanotechnology Affect us?

Module 2: Nanotechnology in Various Sectors

- Unit 1- Nanotechnology in Agriculture / Food
- Unit 2- Nanotechnology in Electronics
- Unit 3- Nanotechnology in Textiles
- Unit 4- Nanotechnology in Construction
- Unit 5- Nanotechnology in Energy
- Unit 6- Additional Application of Nanotechnology in Medicine & Pharmaceuticals
- Unit 7- Nanotechnology in Automobiles
- Unit 8- Nanotechnology in Environment
- Unit 9- Nanotechnology in Sports
- Unit 10- Nanotechnology in Chemicals and Paints

Introduction to Nanotechnology Vol. 2

Module 3: Research & Development in Nanotechnology

- Unit 1- Research & Development in Nanotechnology

Module 4: Indian Nanotechnology Perspective

- Unit 1- Role of Government Promoting Nanotechnology
- Unit 2- Role of Industries Promoting Nanotechnology
- Unit 3- Other Activities
- Unit 4- Chronology of Major Conferences
- Unit 5- Major Universities /Institutes/Companies

Module 5: Global Nanotechnology Perspective

- Unit 1- Nanotechnology in Asia
- Unit 2- Nanotechnology in Europe
- Unit 3- Nanotechnology in Africa
- Unit 4- Nanotechnology in Australia
- Unit 5- Nanotechnology in North America
- Unit 6- Nanotechnology in South America

