

- Nanotechnology in Food packaging, agriculture, farming,
- Potential of nanofertilizers.

**REFERENCES:**

1. Nano: The Essentials Understanding Nanoscience and Nanotechnology, Pradeep.T (2007).1 Edition, Tata McGraw – Hill Publishing Company Limited, New Delhi.
2. Nanotechnology LakshmanDesai, 2007. 1st Edition, Paragon International Publishers.
3. Chemistry of nanomaterials : Synthesis, properties and applications by CNR Rao et.al.
4. Nano bio-technology: Concepts, Applications and Perspectives, Christ of M. Niemeyer, Wiley, 2004.
5. K.K.Jain, Nano Biotechnology, Horizons Biosciences, 2006.
6. Introduction to Nanoscience, by Stuart Lindsay.
7. Introduction to Nanomaterials and nanotechnology by Vladimir Pokropivny, Rynno Lohmus, Irina Hussainova, Alex Pokropivny and Sergey Vlassov.
8. Nanomaterials by A.K. Bandyopadhyay; New Age International Publishers.
9. Nanotechnology by Mark Ratner and Daniel Ratner, Pearson Education.
10. Nano Essentials, T.Pradeep/TMH
11. Bharat Bhusan, "Springer Handbook of Nanotechnology", springer, Newyork, 2007.
12. Hari Singh Nalwa, "Encyclopedia of Nanotechnology", USA 2011.
13. James A. Schwarz, Cristian I. Contescu, Karol Putyera, "Dekker encyclopedia".

**BCH 557: PROJECT WORK/DISSERTATION: HARD CORE:**

Project work: 08 hours/week

Total Credits: 04

**Course objectives**

- To orient the students towards research work
- To develop creativity, analysis, skill in research

Project work will be allotted to the students on defined research work such as protein and peptide chemistry, enzymology, clinical biochemistry, nanotechnology, inflammopharmacology, Phytopharmacolgy, biomarkers, toxicology etc. The students have to present and defend their project work.

**Course Outcome**

- Students gain the knowledge of literature survey and data analysis
- Students learn the laboratory techniques.

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