

Nanobiotechnology:

A Discipline at a Crossroads

Overview

Nanobiotechnology is a relatively young discipline whose purpose is the juxtaposition of nanoscience and biotechnologies. Naturally, it is a science at a crossroads, bridging some of the most exciting and prospective scientific disciplines. It feeds on the creative input of physicists, chemists, biologists, materials scientists, medical practitioners, pharmacologists, and engineers from different milieus, ranging from the mechanical to the electrical to the biomedical, requiring more multidisciplinary openness than perhaps any scientific discipline before or after. Like all things young, it is a source of perpetual excitement and wonder. In this summer course, students will become acquainted with the roots and the prospective paths branching out of a figurative tree that this field of science represents. Occasionally we will talk about the political and economic climate in which it thrives, but most of the time we will sit in its shade and savor its fruits. Still, as with all the freshly planted trees, many years are needed before the first fruits come to view. So may it be with attendees of this course, should they only be inspired to professionally pursue the wondrous path of nanobiotechnology. To freely share this inspiration, like water of life, is the first and the foremost aim of this course.

Modules	A: Introduction to nanobiotechnology : Dec 14 - Dec 18 B: Advanced application of nanobiotechnology : Dec 21 - Dec 25 Number of participants for the course will be limited to fifty.
You Should Attend If...	<ul style="list-style-type: none">You are Research scientist, engineer, Technologist and faculty working in the area of Bio Engineering and / or material science / Nano Science, Chemical Engineering, Chemistry, Biomedical Engineering.
Fees	The participation fees for taking the course is as follows: Participants from abroad : US \$500 Industry/ Research Organizations: ₹ 30000 Academic Institutions: ₹ 10000 The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.

The Faculty



Prof. Vuk Uskokovic is in the faculty of University of Illinois, Chicago, USA in the Department of Bioengineering. His Research interest includes Biomaterials, Tissue Engineering, Nanobiotechnology and Nanomedicine.



Prof. Lopamudra Giri is in the faculty of Indian Institute of Technology Hyderabad, Department of Chemical Engineering. Her Research interest includes Synthesis of Nanomaterials, In vitro and In vivo studies of Cell interaction with Nanoparticles, Confocal imaging studies etc.



Prof. Sudarsan Neogi, is Professor, Department of Chemical Engineering, Indian Institute of Technology Kharagpur. His research interest includes Advanced Material Processing using RF Plasma technology, Plasma Induced Chemical Vapor Deposition, Adhesives Development and Wastewater engineering.

Course Co-ordinator

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