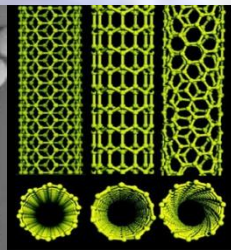
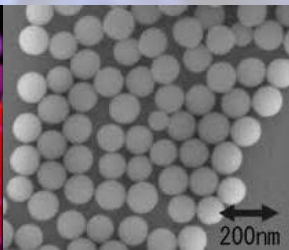
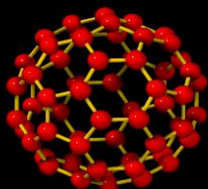


**FACULTY  
Development  
Program  
on  
Nanomaterials & Its Applications  
(13<sup>th</sup> July -18<sup>th</sup> July, 2015)**

**Coordinator  
Dr. Sudha Srivastava**



**ORGANIZED BY  
DEPARTMENT OF BIOTECHNOLOGY  
JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY  
A-10 SECTOR 62 NOIDA 201307**



## Introduction

Nanotechnology/Nanobiotechnology is a multi-disciplinary area involving Physics, Chemistry and Biotechnology. Nanomaterials, owing to their small size and high surface area exhibit properties different from their bulk counterparts. These nanomaterials having unique optical, catalytic, mechanical, electronic, thermal and magnetic properties have found applications in all spheres of life ranging from diagnostics and therapeutics to textile, paints, food, cosmetics, and automobile industries.

FDP aims at enriching the audience from vast experience of experts from industry as well as academia about nanomaterials and their applications. In addition to lectures, hands on training session on nanoparticles characterization and electrochemical techniques would be provided.

## About IIIT

IIIT, Noida was established in the year 2001 and has been declared as "Deemed to be University" under Section 3 of UGC Act 1956. The undergraduate programs of the University have been accredited by the National Board of Accreditation of AICTE. IIIT's state-of-the-art, environmentally conditioned campus comprises smart buildings with Wi-Fi connectivity covering the Academic Block, Business School cum Research Block, Faculty Residences, Student Hostels and Annapurna and provides a pleasant and stimulating ambience. The institute has well-equipped modern laboratories and an intellectually stocked Learning Resource Centre with over 43750 books and about 1.7 lacs e-Resources in the form of journals and other learning materials

## Department of Biotechnology

Department of Biotechnology at IIIT offers courses to B. Tech., B.Tech.-M. Tech. dual degree, M.Tech. and Ph. D. programs. The department is actively involved in research areas of Medical Biotechnology and Plant & Microbial Biotechnology.

Coexistence of Physics and Materials Science and Engineering (PMSE), Electronics and Communication Engineering (ECE) and Biotechnology department provides expertise and resources for interdisciplinary field like Nanobiotechnology, diagnostics/biosensors and Novel drug delivery systems.





# Scope of FDP

- Nanomaterials and their characterization.
  - Nano- Sensors/Biosensors
  - Nanocarriers in Drug Delivery
- Nanotechnology in Textile Industry
  - Polymeric nanomaterials
  - Energy Storage Devices
  - Surface Plasmon Resonance
- Hybrid Microcircuits and MEMS Packaging

## Hands-on Training

*Dynamic Light Scattering* for nanoparticles size, polydispersity, zeta potential analysis  
*Electrochemical Analysis* for Physical and Biological Applications Cyclic voltammetry, Impedance analysis, chronoamperometry

### Resource Persons

The course will be conducted by domain experts with experience of several years in academics and industry.

- Prof. A. K. Dinda, Dept. of Pathology, AIIMS, New Delhi
- Prof. A. K. Panda, Immunity and Infection, NII, New Delhi
- Prof. Vinay Gupta, Dept. of Physics and Astrophysics, Delhi University, Delhi.
- Prof. B. D. Malhotra, Dept. of Biotechnology, DTU, Delhi.
- Prof. N. N. Sharma, School of Automobile, Mechanical & Mechatronics, Manipal University, Jaipur.
- Prof. P. K. Khanna, Hybrid Microcircuits Group, CEERI, Pilani.
- Prof. A. K. Ghosh, Dept. of Aerospace Engineering, IIT Delhi, New Delhi.
- Prof. D. Singh, Molecular Endocrinology Lab. Animal Biochemistry, NDRI, Karnal
- Dr. A. Niazi, Department of Physics, Jamia Milia Islamia, New Delhi.
- Dr. Anand Tadas, Product Specialist Nanometrics, Malvern Aimil Instr. Pvt Ltd.
- Mr. Santosh Kulkarni, Product Manager Electrochemistry, Metrohm India Ltd.



A unique and magnificent Auditorium with seating capacity of 1800 besides viewing galleries.

## Registration Form

Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Organization : \_\_\_\_\_

Official Address : \_\_\_\_\_

Phone : \_\_\_\_\_

e-mail : \_\_\_\_\_

Accommodation requirement: YES/NO

### Who Can Participate

Faculties from college, university and industry can participate in FDP.

### Registration

Participants	Registration Fees	Last Date
Faculty	Rs. 2000/-	July 9, 2015
Company Exhibition	Rs. 30,000/-	

Registration fee includes lunch and tea during the program. No TA/DA will be provided.

Accommodation will be available on demand as per the availability. Accommodation fees @Rs. 400 per day would be charged for the same.

Fees can be paid either by (i) Credit card via link <http://www.jiit.ac.in:8080/jiit/fdp2015/creditcard/RegistrationFDP2015.html>

or by (ii) Demand Draft drawn in favor of "Jaypee Institute of Information Technology" payable at Noida, and send to the following Address.

Address for Communication

Dr. Sudha Srivastava

Department of Biotechnology

Jaypee Institute of Information Technology,

A-10, Sector -62, Noida-201307, U. P.

Ph: 09013572679, 0120-2594213. Fax: 0120-2400986 (Registrar)

Email: [sudha.srivastvava@jiit.ac.in](mailto:sudha.srivastvava@jiit.ac.in)

