

Nanomedicine: Applications, Challenges and Perspectives

Overview

Nanoscience in Biology/Medicine involves the creation and application of structures, devices and systems that have novel properties and functions because of their small size; research towards a fundamental understanding of biological processes at the nanometer dimension. Nanobiotechnology can be described as interface between nanoscience/engineering and biology, which often involves the conception and fabrication of devices that will effectively detect, analyze and manipulate nanoscale entities of relevance to biomedicine; the development of nanotechnologies and nano-structured materials that will in turn benefit biology and medicine.

Department of bioengineering at NIT Agartala, would like to propose to start-up a collaborative teaching and research program and bring together diverse multidisciplinary researchers from the state level, national level and international level, with common interests in nanotechnology, nanoscience and nanomedicine field.

Course participants will learn the development status of the nanobiotechnology subject areas through brainstorming lecture series, discussion, and question answer sessions. Also different assignments will be shared on this particular subject area to stimulate research motivation of participants.

Modules	Nanomedicine : March 28 - April 2 Number of participants for the course will be limited to fifty.
You Should Attend If...	<ul style="list-style-type: none">▪ you are an executives, engineers and researchers from industry and government organizations including R&D laboratories.▪ you are a student at all levels (BTech/MSc/MTech/PhD) or Faculty from reputed academic institutions and technical institutions.
Fees	The participation fees for taking the course is as follows: Participants from abroad : US \$300 Course fee for non-students (i.e. other academic, industry participants etc.): Rs. 2000/- Course fee for students: Rs. 1500/- The course fee will be made half for SC/ST students. The above fees include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges. The individual course participants will have to borne the charges for their food, transport and accommodation separately. The external participants will be provided accommodation on payment basis.

The Faculty



Dr. Anjan Nan, Assistant Professor in the School of Pharmacy, University of Maryland, Eastern Shore, teaches in the areas of pharmaceuticals, biopharmaceuticals and pharmacokinetics. He was on the faculty and served as co-director of the Center for Nanomedicine and Cellular Delivery, University of Maryland, Baltimore. The focus of Dr. Nan's research is on the

design and development of novel polymeric and engineered nanostructures for biomedical applications, specifically in the area of targeted delivery of bioactive and imaging agents. His research is aimed at the development of novel nanoplatforms for controlled delivery of bioactive agents. Fabrication of platforms for localized drug delivery through the use of nanoscale materials is one way to advance the field of targeted delivery and ultimately, improve patients' lives by improving the safety and efficacy of therapeutics.

Course Co-ordinator

Dr. Tridib Kumar Bhowmick

Phone: 8413061175

E-mail: tbhowmick@gmail.com

Dr. Sreerup Banerjee

Phone: 8119061110

E-mail: sreerup.banerjee@gmail.com

.....
<http://www.nita.ac.in/NITAMain/GIAN/GIAN.html>