

**One Week Self Finance
Short Term Course with Hands on
Training Program
on
“In Silico Drug Design and Discovery”
From
April 4th - 8th 2016**

REGISTRATION FORM

Name:
Designation:
Organization:
Qualification:
Correspondence Address:
.....
Tel. (O) (R)
(M)
E-Mail:

Registration Fee is paid in the form of
Cash/DD

Amount

No.....Date

Name of the Bank.....

Accommodation Required: Yes / No

Date: Place:

Signature

Note:

■ Demand draft should be made in favour of
Director, National Institute of Technology
Raipur, payable at Raipur.

■ Photocopies of registration form may be used.
Attach a one page CV along with this form.

Chief Patron
Dr Sudarshan Tiwari
Director, NIT Raipur

Patron
Dr S. Sanyal
Dean R & C, NIT Raipur

Course Coordinators
Dr Awanish Kumar and Dr Lata S B Upadhyay
(Department of Biotechnology)

Organizing Committee Members
Mr Nikhil Kumar, PhD Scholar
Mr Aditya Dutt, PhD Scholar
Mrs Reecha Sahu Parkey, PhD Scholar
Mr Ashiwini Kumar, PhD Scholar
Ms Archana Vimal, PhD Scholar

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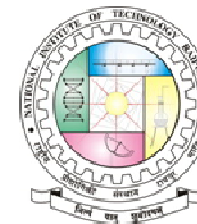
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Organized by

Department of Biotechnology, NIT Raipur



**National Institute of Technology
Raipur-492 010 (Chhattisgarh)**

About the Institute:

National Institute of Technology Raipur situated in the capital of Chhattisgarh, has proven to be 'avant-grade' in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. the institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department:

Department of Biotechnology at NIT, Raipur was established in 2003 with the mission of defining and establishing a new discipline fusing life sciences with engineering. The goal of this discipline is to advance fundamental understanding of how biological systems operate and to develop effective biology-based technologies for applications across a wide spectrum of societal needs through research and education. The innovative educational programmes reflect this emphasis on integrating life sciences with a quantitative, systems-oriented engineering analysis and synthesis approach, offering opportunities at the undergraduate level and at the graduate level for the PhD.

Venue:

**Department of Biotechnology
NIT Raipur (CG) – 492 010, INDIA**

Objectives:

Specifically, this short-term training programme aims to:

- Provide/upgrade specific skills required in the field of *in silico* drug design.
- Facilitate hands on training on Molecular Modeling, Docking etc.
- Develop the interest of participants in the area of computer-Aided Drug design.
- Able to design critical problem effectively towards the improvement in therapy and development of novel drug.
- Enhance the knowledge and performance in applied research.

Theme/Scope:

A one week short term course for 25 participants is offered. The short term course aims to deal with the following themes:

- Molecular Modeling,
- Computer-Aided Drug Designing
- Structure-based drug design, addressing receptor-flexibility
- Virtual screening
- Lead optimization methods like Combinatorial drug design, Quantum mechanics and Molecular dynamics
- Protein Modeling and optimization
- Pharmacophore modeling
- QSAR

Topics to be covered:

- Molecular Docking (protein/ligand preparation, Glide-docking)
- Structure –based drug design
- Analysis of virtual screening results and selection of hits based clustering, SIFT
- MM-GBSA and other accurate method of binding free energy calculations
- Fingerprint calculations, Data clustering
- Jaguar: quantum mechanic techniques
- Protein modeling and PLOP protocol
- Homology & Pharmacophore modeling
- Advances in Ligand-based drug design

Targeted Participants :

- Faculty of Colleges, Institutes and Universities
- Practicing Engineers from industries
- Research Scholars and individuals

Registration Fee Details (in INR):

Participants	Amount (in Rs)
Students (B.Tech)	1500/-
Student (M.Tech/MSc)	2000/-
Research Scholars	2500/-
Faculty	3000/-
Industry Delegates	5000/-

Application in the prescribed format with registration fee in the form of Demand Draft drawn in favor of “**Director, NIT Raipur**” must reach the coordinator on or before March 30th, 2016 Registration fee includes registration kit, tea and lunch during the program. Fee is non-refundable. Selected candidate will be informed by email as per the schedule. Certificates will be issued to the participants only after attending the complete course. Accommodation will be provided only to the participants out of Raipur if available and will be charges as per the institute rule.

Important Dates:

Last date for application: **March 30th, 2016**
Participation confirmation: **March 31st, 2016**
Spot Registration on **4th April 2016** depending on availability of seats till 10:30 AM only.