

One Week Self Finance Short Term Course on
**Computational Structure-based drug design,
Biologics design, and Molecular dynamics**

From 14th-18th, December 2020

REGISTRATION FORM

Name:

Affiliation:

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Qualifications:.....

Address:

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City.....State

Country.....Zip/Postal Code.....

Telephone(O/M/R):.....

Fax:.....Email.....

Amount

DD/NEFT/RTGS

No:.....

Date:.....Bank Details.....

.....

Signature of Candidate

Note:NEFT/RTGS should be made in favor of Director, National Institute of Technology Raipur, payable at Raipur (CG), SBI bank, GCET branch Raipur.

For **online Registration** go through the following link:

<https://forms.gle/3z4DYKHf4D7Kq5Py9>

Payment should be made to the following

Account No.: 38027633250

Name: Director, NIT Raipur IFSC: SBIN0002852

Photocopies of registration form may be used.

Chief Patron

Prof. Dr. A. M. Rawani

Director, NIT Raipur

Patron

Prof. Dr. Shubhrata Gupta

Dean (Research & Consultancy), NIT Raipur

Course Coordinators

Dr. Pratima Gupta

Dr. Awanish Kumar

Address for communication

Dr. Pratima Gupta

Associate Professor & Head

pgupta.bt@nitrr.ac.in, +91-7000420752.

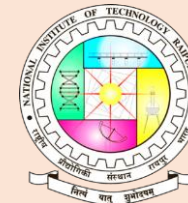
Dr. Awanish Kumar

Assistant professor

awanik.bt@nitrr.ac.in,

+918871830586/9589047221

Department of Biotechnology
NIT Raipur 492010 Chhattisgarh



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on

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Organized by

DEPARTMENT OF BIOTECHNOLOGY

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR,
492010 (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. Jawaharlal 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. The NIRF ranking 2020 of this institute is 67.

About the Department

The Department of Biotechnology is one of the research-oriented departments of the institute and offers academic programs leading to award of B.Tech. and Ph.D. degrees. It provides research insights to PhD scholars in all frontline areas of Biotechnology including Enzyme technology, Biosensing devices, drug discovery, infection biology advanced bioprocessing etc. Presently, the department is running various research projects sponsored by DST and DBT, Government of India. 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.

Organiser:

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(CHHATTISGARH)

Aim of the short-term course

This five-day cloud-based hands-on training programme will target and cover structure-based drug designing and Biologics design. Participants will get practical experience and in-person guidance in using the Maestro GUI, covering the organic molecule sketching, protein selection, preparation, and screening for hit identification of molecules against therapeutic targets. The workshop will also include a brief recap of background theory for Molecular mechanics, Molecular Docking, and Molecular Dynamics via case studies on real-time industrial projects.

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 drug research.

Topics of short-term course

- 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
- Biologics design

Registration Fee Details (in INR)

Participants	Amount (in Rs)
UG Students	Rs 300/-
PG/PhD Students	Rs 500/-
Faculty and Industry Expert	Rs 800/-

Application in the prescribed format with registration fee in the form of DD/NEFT/RTGS drawn in favour of "Director, NIT Raipur" must reach the coordinator on or before 13th December, 2020. Candidates have to send scanned copy of the registration form along with scanned of DD/NEFT/RTGS transaction. Selected candidate will be informed by email/phone as per the schedule. Certificates will be issued to the participants only after attending the complete course.

Important Dates

Registration deadline: 13th December 2020