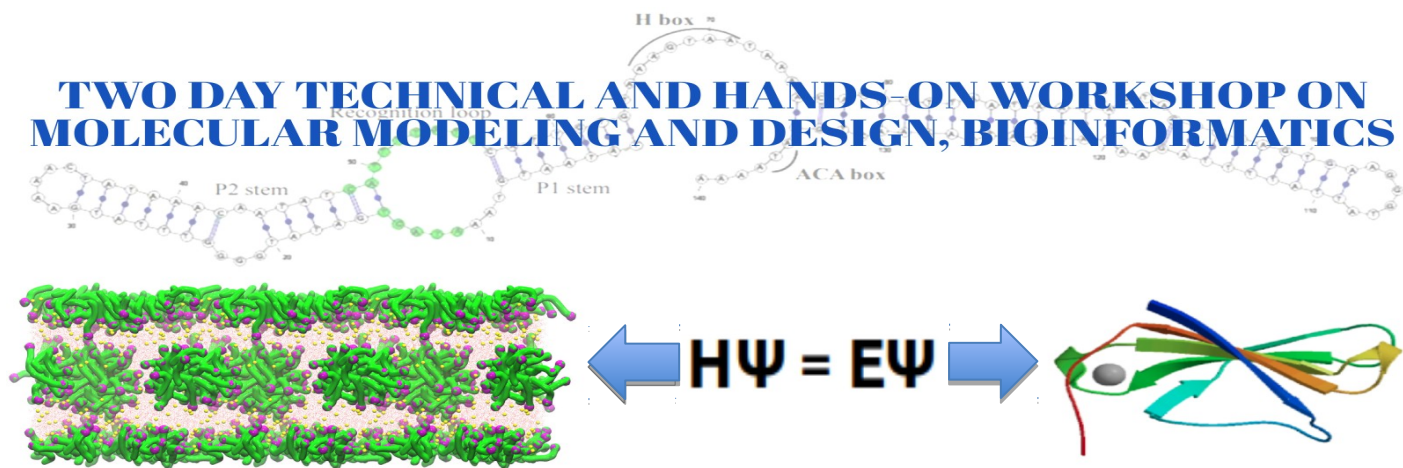


TWO DAY TECHNICAL AND HANDS-ON WORKSHOP ON MOLECULAR MODELING AND DESIGN, BIOINFORMATICS



Dates: March 03-04, 2020
Department of Computational Sciences
Central University of Punjab, Bathinda

The hands on workshop introduces participants, primarily post-graduate / research scholars, to the techniques related to molecular modeling / simulation as well as bioinformatics tools for e.g. Molecular Dynamics (MD), Monte Carlo (MC), QM-MM, NGS, Docking etc., and the data base management concerning the participants. The aim of the workshop is to train a chosen group of research students in the area of molecular modeling / bioinformatics, which can be use to study biological systems.

This workshop will start with inauguration, moving on to the presentation, which follows up with the hands on workshop. Participants receive handouts describing techniques, along with certificate of participation to the workshop. The workshop proceeds in nine sessions of two days in which we: present several techniques for advanced in-silico practices; practice and training session. Further information is at www.cupb.edu.in.

Workshop Contents:

- Molecular Modeling (QM and QM-MM)
- Molecular Simulation (MD, MC)
- Introduction to NGS data analysis (RNASeq: data format, mapping, data visualization and downstream analysis)
- Docking
- Database management
- Introduction to comparative analysis of biosynthetic pathway

Workshop Instructors:

- Dr. Kousik Giri, Assistant Professor
Department of Computational Sciences, Central University of Punjab, Bathinda
- Dr. Sudip Chakraborty, Assistant Professor
Department of Computational Sciences, Central University of Punjab, Bathinda
- Dr. Devinder Kaur, Assistant Professor
Department of Computational Sciences, Central University of Punjab, Bathinda
- Dr. Arti Sharma, Assistant Professor
Department of Computational Sciences, Central University of Punjab, Bathinda

Lecture session will be conducted in the morning session followed up with technical and hands-on session in DCS-HPC Lab. Enrollment is limited to 30 participants. Participants can bring their own laptop for use in workshop tutorial sessions. Fooding and Lodging will not be provided for participants. The course materials will be provided at the end of the workshop. There is no registration fee for participation. The workshop will be held at the academic block, Central University of Punjab, Bathinda, City Campus, Mansa Road.

Important Dates

Date

Application deadline for registration	23/02/2020
Selection and notification of participants	25/02/2020
Confirmation of attendance by participants	27/02/2020

Patron:

Prof. R. K. Kohli

Vice Chancellor

Central University of Punjab, Bathinda

Advisory Committee:

Prof. P. Ramarao

Dean, Academic Affairs

Prof. Vinod Kumar Garg

Dean, Student Welfare

Dean, School of Environment & Earth Sciences

Prof. Anjana Munshi

Dean, Research

Dean, School of Health Sciences

Prof. S. K. Bawa

Director, IQAC

HoD, Department of Education

Organizing Committee:

DCS workshop organizing committee

Communication Address:

Er. Saurav Jindal (Mobile: +91 8591587896)

Ms. Anupama Sharma (Mobile: +91 9560636207)

Workshop Related Queries, Please Contact:

cupb.dcs.workshop@gmail.com

**TWO DAY TECHNICAL AND HANDS-ON WORKSHOP
ON MOLECULAR MODELING AND DESIGN,
BIOINFORMATICS
Registration Form**

Please fill in the registration form and send it to the e-mail id: cupb.dcs.workshop@gmail.com

Name with Department Designation Email Telephone/Mobile	
Organization Details	
Research Area	
Research Statement (300 words)	
Signature of the Participant	
Signature of the HOD (Applicant's Department)	