



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956) Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12 B
Coimbatore – 641 043, Tamil Nadu, India

Department of Biochemistry, Biotechnology and Bioinformatics

Ten-Day Online Workshop / Internship on Bioinformatics

12th July – 21st July 2021 (3.00 pm to 5.00 pm)

Objectives of the workshop / Internship:

This program aims to give exposure to the UG / PG students about bioinformatics tools and its applications in the biological data analysis and drug discovery process.

Who should participate?

Students, scholars and faculty members with science background

For registration: click the link

<https://forms.gle/HzWbgpxkaSyghVdM9>

Registration fee: Rs.500/-

Mode of payment: By online transfer to The Registrar

Bank Name: INDIAN BANK

Branch: Avinashilingam Deemed University Campus

IFSC code: IDIB000A005

Account No.: 6010310202

Important dates:

Last date of registration: 10.07.2021

Date of notification: 11.07.2021

Organising secretaries: Dr. N Santhi & Dr. M. Rajeswari

Department of Biochemistry, Biotechnology & Bioinformatics

Mail id: internship.bcbtbi2021@gmail.com

Day Topics to be covered

- 1 Accessing biological databases
- 2 Database search using BLAST and FASTA
- 3 Multiple sequence alignment and phylogenetic analysis
- 4 Structural analysis of biomolecules
- 5 Introduction to Computer Aided Drug Designing
- 6 Understanding file formats (sdf, mol, pdb)
Line notation of small molecule (SMILES)
- 7 Comparative/ Homology Modelling using Web-based server
Validation of predicted protein structure
- 8 Active site prediction and molecular docking using AutoDock
Vina
- 9 Analysis of docking based on binding energy and hydrogen bond
interaction and Visualization of protein-ligand interaction
- 10 Prediction of ADME profile of compounds using online server
Concluding session

