

# CENTRE FOR ADVANCED TRAINING AND RESEARCH

*Bringing Excellence To Students*  
**(Certified & Govt. Approved)**



## ABOUT THE CENTRE FOR ADVANCED TRAINING AND RESEARCH

The Centre for Advanced Training and Research (CATR) is more than just an initiative; it is a committed organization that strives to empower learners and knowledge seekers as they navigate their educational paths. Our primary objective is to connect the dots between curiosity and expertise, providing a plethora of learning opportunities for individuals who are enthusiastic about delving into the realms of sciences and technology.

CATR was established with the vision of providing transformative learning experiences to students globally. It has been duly registered with the Government and has achieved ISO and International Accreditation Forum certification. It is a distinguished digital platform for educational purposes and career progression, providing individuals across the globe with the chance to participate in online and offline courses, training sessions, and projects within the realm of science and technology. Our goal is to remove any obstacles that hinder access to top-notch education for all individuals, ensuring that excellence is within reach for every student.

## COMPUTATIONAL BIOLOGY- BIOINFORMATICS FACILITY

The Bioinformatics facility at CATR, Lucknow offers high-performance computing resources and programming expertise to support researchers in effectively addressing their research informatics needs. Our advanced computing infrastructure enables efficient and cost-effective research solutions. The center is equipped with state-of-the-art information and communication technology, including essential hardware and software. We welcome faculty members, research scholars, and students from the Universities, colleges, and research institutions who are interested in the field of Computational Biology. We are actively involved in research areas of Genomics, Proteomics, Protein Structure Prediction, Biological Sequence Analysis, Phylogenetic studies, Homology Modelling, Molecular Dynamics Simulations, Molecular Docking, signaling and Metabolic Diseases, and Drug Design. We are focused on delivering specialized Computational Biology services. Our company focuses on delivering specialized computational biology services in the field of Biotechnology, Pharmaceutical, life sciences and Industries.

## RECOGNITION AND CERTIFICATION



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 [www.catredu.com](http://www.catredu.com)

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## TRAINING (OFFLINE/ONLINE)

- Dissertation
- Project Training
- Mini Projects
- Short Term Training
- Winter & Summer Training
- Bioinformatics Certificate Course

## BROAD AREA OF RESEARCH

- Basic to Advanced Bioinformatics
- Neuroinformatics
- Enzyme Informatics
- Immunoinformatics
- Cancer Biology
- Drug Designing
- Antimicrobial and Anti-Parasitic Studies
- Antiviral
- Antidiabetic
- Drug Toxicity Analysis
- Pharmacokinetic Analysis
- Molecular Docking
- Molecular Dynamic Simulation
- Genomics and Proteomics
- Protein Secondary and Tertiary Structure Predictions
- Sequence analysis and Comparative Tools
- Data, Databases, Data Mining Tools
- Prediction and Analysis Tools
- Metabolites/Drug Candidates Screening
- Online tools- N&P Databases, BLAST, FASTA, HMMER, MSPROBS, MULTALIN, GENSCAN, GENOMESCAN and GENEMARK, FASTA, BLAST, MMDB Server, InterPro Server, etc.
- Offline Tools-Mega, AutoDock, GROMACS, Schrodinger, Discovery Studio, Pymol, Open Babel, Cygwin, Linux, Python etc.

## NOTE

Evening Sessions for Training and Courses are Offered for both Working Professionals and Students.

## SERVICES

- ADMET Screening
- Molecular Docking
- Protein-Protein Docking
- Molecular Dynamics
- Homology Modelling
- PhD Research Work and Synopsis Design

## WHO CAN JOIN

Graduate / Postgraduate / Research scholars/ Faculty/ Industrialist in the field of Life Sciences (ZBC, Biotech, BioChem, MicroBio etc.) Pharmacy, Chemical Sciences, Medicine, Medical Professionals etc.

## REGISTRATION SCAN OR CLICK



[Click here to Register](#)

## FEE STRUCTURE

Dissertation-Project Training Fee  
**on Enquiry**  
Service Charges  
**on Enquiry**



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