



Department of Bioinformatics
College of Animal Biotechnology
Guru Angad Dev Veterinary and Animal Sciences
University (GADVASU), Ludhiana

SIX WEEKS SHORT COURSE ON
“BIOINFORMATICS”
(Distance Learning Programme)

Course Director: *Dr Yashpal Singh Malik, Dean, College of Animal Biotechnology, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana*

Course Coordinator: *Dr C. S. Mukhopadhyay, Sr. Scientist, College of Animal Biotechnology, GADVASU, Ludhiana*

Course Co-Coordinators:

- *Dr RK Choudhary, Assistant Professor, College of Animal Biotechnology*
- *Dr Neeraj Kashyap, Assistant Professor, College of Animal Biotechnology*
- *Dr Nisha Singh, Assistant Professor, College of Animal Biotechnology*

Course Information

address problems in molecular biology.

Medium: English

Duration (Weeks):

- 6 Weeks (5 days contact classes for topic discussions and examinations at the end of the semester).
- The last week will be offline for practical hands on in lab, short project/assignments and examination

About the Course:

Bioinformatics is one of the fastest-growing, and most inevitable disciplines in molecular biology that is finding ever-expanding horizons in the era of big data, and artificial intelligence. This short course in Bioinformatics will garner your knowledge in computer science, biostatistics, and information technology.

Beginning of Course:

17th May 2022 (Tuesday)

Eligibility: Graduate/ post-graduate in any science subjects preferably from health sciences (Veterinary, medicine, dentistry, alternative medicine, nursing, pharmacy, biological sciences etc.), and forestry and environmental sciences.

No. of Seats: 20

The objectives of offering the course are:

- To develop skills in biocomputational analysis and to strengthen the core concept of bioinformatics
- To train students/faculty for computer coding using popular programming environment, like R and language like, Perl.
- To develop critical thinking and practical expertise in biocomputational approach to

Mode of Selection: Through the selection committee

Application Processing Fee: ₹ 500/-

Course Fee: ₹ 5,000/- (Rs. Five Thousand only), on selection

Payment of Programme Fee:

Confirmed candidates will be intimated duly through email for submission of programme fee

Requirement: Laptop (at least 4 GB RAM, 1 TB Memory) during the online and offline sessions of the Short course.

Total Credit Hours (Cr. Hrs.): 2+3=5; Total contact hours will be 8

Evaluation System: End examinations and evaluation of assignments and research projects / critical appraisals.

Course outcomes:

- **Skill development:** The bioinformatics short course will contribute towards skill development of the biology students who work with handling of molecular data.
- **Better job opportunity:** The course will also help enable students to prepare for jobs in

molecular data analyses, the vaccine industry, big-data analysis, biomedical research centers, etc

- **Capacity building:** The course will directly contribute to human-resource development in bioinformatics in the era of computer science and artificial intelligence.

Course highlights

- Sequence alignment
- BLAST
- Primer designing
- Phylogeny
- Protein structure prediction
- Protein-ligand docking
- R-basic coding
- Statistical analysis
- Project work

How to Apply?

Please fill up the application form provided at <https://gadvasu.in/> and email to deancoabt@gmail.com

Selected candidates need to pay the program fee through online payment

Online Transfer as per account details given below:

Beneficiary Name	DEAN, COLLEGE OF ANIMAL BIOTECHNOLOGY
Beneficiary Account No	50100422328494
Beneficiary Bank	HDFC Bank Ltd, Feroze Gandhi Market, Ludhiana
Beneficiary Bank IFSC Code	HDFC0000634
Beneficiary Bank Swift Code	HDFCINBBXXX

For further information, please contact

Dr. C. S. Mukhopadhyay
Course Coordinator

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