

Royal Education Society's



College of Computer Science and Information Technology, Latur.^{Coc} Biotechnology Department

Intensive Training Programme on, "Application of Bioinformatics in Biotechnology".

Following enlisted molecular techniques are required for students throughout their research carrier. These techniques are the base to enter any research institute or any agricultural research organization.

Duration of Training Programme: Start Date: 08 Feb. 2022

End Date: 16 Feb. 2022

Day	Session	Module	Outcome
Day-1	Morning (10 am to 01 pm)	Introduction to Basic Bioinformatics	Students will be familiar with in-vivo: in-vitro: in-silico techniques
	Afternoon (02 pm to 05 pm)	Basics of Internet used in Bioinformatics	
Day-2	Morning	Databases and their	Students will learn
	(10 am to 01 pm)	Applications	Bioinformatics Approach with
	Afternoon	Exploring Entrez –	Central Dogma of Biology
	(02 pm to 05 pm)	NCBI	
	Morning	PDB and Swiss Model	Students will learn Different
Day-3	(10 am to 01 pm)		Biological Databases
	Afternoon	BRINDA and KEGG	
	(02 pm to 05 pm)		
Day-4	Morning		Students will be able to Retrieve
	(10 am to 01 pm)	Literature Mining	& Analyze Literature & Nucleotide-Protein Sequences
	Afternoon	Comparative Genomics	rueleonde Frotein Sequences
	(02 pm to 05 pm)	and HGP	

	Morning	Structural	
Day-5	(10 am to 01 pm)	Bioinformatics: (2D – 3D)	Students will explore the Structure of different Compounds
	Afternoon (02 pm to 05 pm)	Ramachandran Plot (Theory and Practical)	and Will understand Prediction of 2D Structure of Proteins
Day-6	Morning	Receptor-Ligand	Students will understand Concept
	(10 am to 01 pm)	Preparation	of Drug Designing & M. Docking.
	Afternoon	Molecular Docking	
	(02 pm to 05 pm)		
Day-7	Morning	Evolutionary study of	Students will be able to construct
	(10 am to 01 pm)	Livings Organisms	Phylogenetic tee of living organisms
	Afternoon	Exit Exam	
	(02 pm to 05 pm)		

Name of the training instructor:

Ms. Shabana H. Shaikh

Link for Registration: <u>https://forms.gle/yjU7Sm498V5bskoV9</u>

Contact for further details: 7507420938

HoD

Principal