

Shri Shivaji Science College, Amravati

E – Contents for Under Graduate Students

Department of Bioinformatics

M. Sc. Part – I (Semester – I)

S.N.	Name of the Teacher	Google Classrooms Joining Link	Class Code
1	S. G. Ingle		
2	A. S. Pundkar		

Notes and PowerPoints			Links to Video Lectures		
Topic	Link	Teacher	Topic	Link	Teacher
Introduction to Bioinformatics	https://drive.google.com/uc?id=1mnqiaGFt-ZW6ytGdGszXJs7Vr8-YS0qm&export=download	S. G. Ingle			
A SHORT HISTORY OF BIOINFORMATICS	https://drive.google.com/uc?id=1c43o4De2TMEYEz4PYQZWW1DXbRkHczTg&export=download	S. G. Ingle			
History in details	https://drive.google.com/uc?id=1tFDk8xp2Bm0plsuwXmNjPVoJRp2eaCVt&export=download	S. G. Ingle			
Introduction to Computational Biology and Bioinformatics	https://drive.google.com/uc?id=1mhNCyHMSD9R5mP4NLtqX1Xgyp3RHxU5d&export=download	S. G. Ingle			
Bioinformatics_multidisciplinary_approach	https://drive.google.com/uc?id=16EemkWtL7BX-I8uiobVDuFXcJ55XRvdl&export=download	S. G. Ingle			

Role of internet and www in bioinformatics	https://drive.google.com/uc?id=1WiHDYf8hla6KIXWfklLITYdXjbRv0mfr&export=download	S. G. Ingle			
Types of dna sequences	https://drive.google.com/uc?id=1j6Yb_uM3N15YIIPwflINV9vFFiDFE8uba&export=download	S. G. Ingle			
automated DNA seqencing	https://drive.google.com/uc?id=1e_KBjxPy7WLPSNX1q_iAiANvZI7DYMs&export=download	S. G. Ingle			
Gene Expression data	https://drive.google.com/uc?id=1mBnOu_rQxGsVFjOYQwHXqP8sgK2rabJL&export=download	S. G. Ingle			
capillary_array	https://drive.google.com/uc?id=15ORkOdRKRIu-nX5YbJctrWbRvrkWTSHV&export=download	S. G. Ingle			
Capillary electrophoresis1	https://drive.google.com/uc?id=1waLusjPnp6fCP_IB4o1wG7YZaob4quGg&export=download	S. G. Ingle			
Capillary electrophoresis2	https://drive.google.com/uc?id=1_U4sJEchvLhOLIOPs--VHbj2Z3PV/bwM5&export=download	S. G. Ingle			
capillary-electrophoresis-principles-and-applications	https://drive.google.com/uc?id=1TyOc6QDb-_TCOQDRkaPDAMy6p3gqC2aFS&export=download	S. G. Ingle			
PDB_file_Format	https://drive.google.com/uc?id=0B6Sbj1MOtoIRWMwcWZoSzEtZFE&export=download	S. G. Ingle			
The forms of biological information	https://drive.google.com/uc?id=0B6Sbj1MOtoIekxYQXYwLWIXenM&export=download	S. G. Ingle			
Dna sequencing	https://drive.google.com/uc?id=0B6Sbj1MOtoIVHhVdDV2TUU4b3c&export=download	S. G. Ingle			
IIInd unit notes point	https://drive.google.com/uc?id=0B6Sbj1MOtoIR3VxT2IVWkZIVE0&export=download	S. G. Ingle			

Assignment 1st protocol	https://drive.google.com/uc?id=0B6Sbju1MOtoINE5VSjNXVWkyc0k&export=download	S. G. Ingle			
Gene structure	https://drive.google.com/uc?id=1OFKTAxHroOH9N67i5l6oA0JiVQr_G2Vh&export=dowload	S. G. Ingle			
Automated sequencing	https://drive.google.com/uc?id=1t7X4DA67nOi8--0bVCy3T7aasHe8R1SW&export=download	S. G. Ingle			
cap_elec_dna_rev	https://drive.google.com/uc?id=1odp2PtVCmsrdEkT3nMHGQbT87IrrRvMM&export=download	S. G. Ingle			
X-ray crystallography	https://drive.google.com/uc?id=19VsfIvTGx6BBel1cJUetxMM0Glx19BjS&export=download	S. G. Ingle			
Classification_of_protein_structure	https://drive.google.com/file/d/1yFcgiZEaRBnoJSslZOMa0-qMFLR814IU/view?usp=sharing	S. G. Ingle			

M. Sc. Part – II (Semester – III)

S.N.	Name of the Teacher	Google Classrooms Joining Link	Class Code
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Notes and PowerPoints			Links to Video Lectures		
Topic	Link	Teacher	Topic	Link	Teacher
Theoretical basis of the methods for structure prediction	https://docs.google.com/uc?export=download&id=1-uH0kcZn4G8KUMutvIFLstua-yx0b5yy	S. G. Ingle			
Protein structure validation	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIRTBfZkpgcHJDV0E	S. G. Ingle			

PMDB - Protein Model DataBase	https://docs.google.com/uc?export=download&id=1LY8heFHUblvp-GBnWPs9C10mqhvZN3yl	S. G. Ingle			
Homology Modeling	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoINkZmUW81YWIInbUE	S. G. Ingle			
GOR_algorithm	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoITU5TRjkyZ2k2Sm8	S. G. Ingle			
Concepts in measuring the accuracy of	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoINHJJYWp6Q0hJSUU	S. G. Ingle			
Ab-initio_protein_structure_modeling	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIRnJESDixelZhRUK	S. G. Ingle			
Ab initio - threading	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoId1pxQmVwNnhmYkQ	S. G. Ingle			
Basic principles _protein struct generations	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIY09QZzIDOHZLZTg	S. G. Ingle			
Basics of Chromatography	https://docs.google.com/uc?export=download&id=1XRskbDqeM19p6bMAevnqLrbunOoZMIMG	S. G. Ingle			
Cell Map Proteomics	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoINUxQTDdfblZzSDQ	S. G. Ingle			
protein microarray(expression profiling)	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtolcER5RVBLWnNNWUE	S. G. Ingle			
Root-mean-square deviation of atomic positions - Wikipedia	https://docs.google.com/uc?export=download&id=1i2toterSQvMotThUTpTcLwoyQt5m-rLu	S. G. Ingle			
Accessible surface area - Wikipedia	https://docs.google.com/uc?export=download&id=1j8CBKoc3W2S8YINFY7G91oVFzB-a_snE	S. G. Ingle			

Accessible Surface Area	https://docs.google.com/uc?export=download&id=1_aNusjRAi_DrTbx5K9Bc63noNrS6f_U	S. G. Ingle			
VAST Algorithm	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIS3N6b0liYmFLMDA	S. G. Ingle			
Structure comparison	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIY0NTUFY4T1BqWXM	S. G. Ingle			
Protein_structure_comparison2	https://docs.google.com/uc?export=download&id=1YbellnzWRixh54BPqz wfzTakXO_IP-PN	S. G. Ingle			
DALI_algorithm	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIaWIFcFl3UnIVVWs	S. G. Ingle			
Concepts of Force field	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoILTJpQTZrT2thQIE	S. G. Ingle			
DALI_algorithm	https://docs.google.com/uc?export=download&id=0B6Sbju1MOtoIaWIFcFl3UnIVVWs	S. G. Ingle			
Unit 1-Life cycle, Infectivity, Demographic distribution of Malaria	https://drive.google.com/drive/folders/1OKIjZlzum1cLjW7NF9F6J8xBnnLxob4c https://youtu.be/1v55yg0RfoY	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Malaria	https://drive.google.com/drive/folders/1OKIjZlzum1cLjW7NF9F6J8xBnnLxob4c https://youtu.be/1v55yg0RfoY	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Leishmania	https://docs.google.com/presentation/d/1rw6slCXMBzXXukHzSVohgBqHocLJDZ3H/edit#slide=id.p1 https://youtu.be/ubCUjNW1Sco	M. B. Ghormade			

Unit 1-Life cycle, Infectivity, Demographic distribution of Trypanosoma	https://docs.google.com/presentation/d/18nZ_G4brLiJbRRUyRApEI7W8lKtSqCo/edit#slide=id.p1 https://youtu.be/_mZlzMU100Y	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Filariasis	https://docs.google.com/presentation/d/1kGGOEFDtwDNrhk2CBtUBdRB18AHuF_8/edit#slide=id.p1 https://youtu.be/BBWePqINg9s	M. B. Ghormade			
Unit1-Role of Bioinformatics in disease monitoring	https://docs.google.com/presentation/d/1TOO4ZSaZ2p2F3Mz8v9zHsvbEEVfwT6XB/edit#slide=id.p2	M. B. Ghormade			
Unit2-Parasite Genome and Proteome Databases (AnoBase, ENSEMBL, NotreDame, PlasmoDB)	https://docs.google.com/presentation/d/1n6pP9WG5nYhPO-8OaLaTK_Pz_RkhXxmt/edit#slide=id.p1 https://youtu.be/kjqRWTa5YHo https://youtu.be/rz2TmDsMhHM	M. B. Ghormade			
Unit2-Biology of vector	https://docs.google.com/presentation/d/1YLUdNodXaDmVehWbXy1jIXFbZ7Vw7-qdF/edit#slide=id.p1 https://youtu.be/q3-zoPGIEkl	M. B. Ghormade			
Unit2- Application of Bioinformatics Data Mining tools for Identification of: Parasite-specific genes/gene products(e.g.house keeping genes, gene essential for survival)	https://docs.google.com/presentation/d/1Z-eTq-46cldiURKv4Ozz8iOv1Ni9M_af/edit#slide=id.p1	M. B. Ghormade			

Unit2-Resistant genes	https://docs.google.com/presentation/d/1eaxePgYGI1zKPernE5zegTqk_ggHdV4i/edit#slide=id.p1	M. B. Ghormade			
Unit3-Full genome comparison	https://docs.google.com/presentation/d/1wdwAHuEblDkwbmRKGBejVxOmaGoLsrjI/edit#slide=id.p1 https://youtu.be/Vk-6OW5bTxE	M. B. Ghormade			
Unit3-Gene prediction	https://docs.google.com/presentation/d/178oKxilt0PwNoa0fUQQ-tYulEjf22DJR/edit#slide=id.p1 https://youtu.be/AoqcWGJv-W4	M. B. Ghormade			
Unit3-Signal sequence prediction	https://docs.google.com/presentation/d/178oKxilt0PwNoa0fUQQ-tYulEjf22DJR/edit#slide=id.p1	M. B. Ghormade			
Unit3-Protein sequence comparison and analysis	https://docs.google.com/presentation/d/1cATy95vT8wwX67wXA4jFH5-yJ4CKgKUe/edit#slide=id.p1	M. B. Ghormade			
Unit3-Protein structure comparison and analysis	https://docs.google.com/presentation/d/126o0Oo0rSNqS6f43LZvxonMpGjggNH2D/edit#slide=id.p2 https://youtu.be/PPJ7C3hcnPw	M. B. Ghormade			
Unit3-Microarray data analysis	https://docs.google.com/presentation/d/1YGPY-y5er48bal0acAyWPbkYMONTIXfZ/edit#slide=id.p1 https://youtu.be/7SXpxwcpGnc	M. B. Ghormade			

Unit3-Proteomics data analysis	https://docs.google.com/presentation/d/1xN9z8v1CmtEU9fk7TdFeg6r5KrantwBr/edit#slide=id.p1	M. B. Ghormade			
Unit4-Recognition and entry process of different pathogens like bacteria and viruses into animal and plant host cells	https://docs.google.com/presentation/d/168VhWdFvW-yB0hdqmjN19jENk2gj0AQ/edit#slide=id.p1	M. B. Ghormade			
Unit4-Alteration of host cell behavior by pathogens	https://docs.google.com/presentation/d/1DHjUN5No4W9xazMZXNiflhHUsgI-aL-c/edit#slide=id.p1	M. B. Ghormade			
Unit4-Virus-induced cell transformation	https://docs.google.com/presentation/d/15AD2mafJJ4iIS8cobpERhnF8Ve0DQd_-/edit#slide=id.p1	M. B. Ghormade			
Unit4-Pathogen induced diseases in animal and plants	https://docs.google.com/presentation/d/1On-1mFvyclLpduSD8Ob1hYI6t4zd9_nQ/edit#slide=id.p1	M. B. Ghormade			
Unit5-Host vector parasite interaction	https://docs.google.com/presentation/d/168VhWdFvW-yB0hdqmjN19jENk2gj0AQ/edit#slide=id.p1	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Malaria	https://drive.google.com/drive/folders/1OKIjZlzum1cLjW7NF9F6J8xBnnLxob4c https://youtu.be/1v55yg0RfoY	M. B. Ghormade			

