

# Shri Shivaji Science College, Amravati

## E – Contents for Post Graduate Students

### Department of Bioinformatics

#### M. Sc. Part – I (Semester – I)

#### Google Classrooms

S.N.	Name of the Teacher	Joining Link	Class Code

Notes and PowerPoints			Links to Video Lectures		
Topic	Link	Teacher	Topic	Link	Teacher
Introduction to Bioinformatics	<a href="https://drive.google.com/file/d/1mnqiaGft-ZW6ytGdGszXJs7Vr8-YSOqm/edit">https://drive.google.com/file/d/1mnqiaGft-ZW6ytGdGszXJs7Vr8-YSOqm/edit</a>	S. G. Ingle			
A SHORT HISTORY OF BIOINFORMATICS	<a href="https://drive.google.com/file/d/1c43o4De2TMEYEz4PYQZWW1DXbRkHczTg/edit">https://drive.google.com/file/d/1c43o4De2TMEYEz4PYQZWW1DXbRkHczTg/edit</a>	S. G. Ingle			
History in details	<a href="https://drive.google.com/file/d/1tFDk8xp2Bm0plsuwXmNjPVoJRp2eaCVt/edit">https://drive.google.com/file/d/1tFDk8xp2Bm0plsuwXmNjPVoJRp2eaCVt/edit</a>	S. G. Ingle			
Introduction to Computational Biology and Bioinformatics	<a href="https://drive.google.com/file/d/1mhNCyHMSD9R5mP4NLTgX1Xgyp3RHxU5d/edit">https://drive.google.com/file/d/1mhNCyHMSD9R5mP4NLTgX1Xgyp3RHxU5d/edit</a>	S. G. Ingle			
Bioinformatics multidisciplinary approach	<a href="https://drive.google.com/file/d/16EemkWtL7BX-I8uiobVDuFXcJ55XRvdl/edit">https://drive.google.com/file/d/16EemkWtL7BX-I8uiobVDuFXcJ55XRvdl/edit</a>	S. G. Ingle			
Role of internet and www in bioinformatics	<a href="https://drive.google.com/file/d/1WiHDYf8hla6KIXWfklITYdXjbRv0mfr/edit">https://drive.google.com/file/d/1WiHDYf8hla6KIXWfklITYdXjbRv0mfr/edit</a>	S. G. Ingle			
Types of dna sequences	<a href="https://drive.google.com/file/d/1j6Yb_uM3N15YIIPwflNV9vFFiDFE8uba/edit">https://drive.google.com/file/d/1j6Yb_uM3N15YIIPwflNV9vFFiDFE8uba/edit</a>	S. G. Ingle			
automated DNA sequencing	<a href="https://drive.google.com/file/d/1e_KBjxPy_7WLPSNX1q_iAiANvZI7DYM/edit">https://drive.google.com/file/d/1e_KBjxPy_7WLPSNX1q_iAiANvZI7DYM/edit</a>	S. G. Ingle			
Gene Expression data	<a href="https://drive.google.com/file/d/1mBnOu_rQxGsVFjOYQwHXqP8sgK2rabJL/edit">https://drive.google.com/file/d/1mBnOu_rQxGsVFjOYQwHXqP8sgK2rabJL/edit</a>	S. G. Ingle			
capillary_array	<a href="https://drive.google.com/file/d/15ORkOdRKRlu-nX5YbJctrWbRvrkWTSHV/edit">https://drive.google.com/file/d/15ORkOdRKRlu-nX5YbJctrWbRvrkWTSHV/edit</a>	S. G. Ingle			
Capillary electrophoresis1	<a href="https://drive.google.com/file/d/1waLusjPnp6fCP_IB4o1wG7YZaob4quGg/edit">https://drive.google.com/file/d/1waLusjPnp6fCP_IB4o1wG7YZaob4quGg/edit</a>	S. G. Ingle			
Capillary electrophoresis2	<a href="https://drive.google.com/file/d/1_U4sJEch">https://drive.google.com/file/d/1_U4sJEch</a>	S. G. Ingle			

	<a href="https://drive.google.com/file/d/vLhOLIOPs--VHbj2Z3PVbwM5/edit">vLhOLIOPs--VHbj2Z3PVbwM5/edit</a>			
capillary-electrophoresis-principles-and-applications	<a href="https://drive.google.com/file/d/1TyOc6QDb-TCOQDRkaPDAMy6p3ggC2aFS/edit">https://drive.google.com/file/d/1TyOc6QDb-TCOQDRkaPDAMy6p3ggC2aFS/edit</a>	<b>S. G. Ingle</b>		
PDB file Format	<a href="https://drive.google.com/file/d/0B6Sbju1MOtoIRWMwcWZoSzEtZFE/edit">https://drive.google.com/file/d/0B6Sbju1MOtoIRWMwcWZoSzEtZFE/edit</a>	<b>S. G. Ingle</b>		
The forms of biological information	<a href="https://drive.google.com/file/d/0B6Sbju1MOtolekxYQXYwLWIXenM/edit">https://drive.google.com/file/d/0B6Sbju1MOtolekxYQXYwLWIXenM/edit</a>	<b>S. G. Ingle</b>		
Dna sequencing	<a href="https://drive.google.com/file/d/0B6Sbju1MOtoIVHhVdDV2TUU4b3c/edit">https://drive.google.com/file/d/0B6Sbju1MOtoIVHhVdDV2TUU4b3c/edit</a>	<b>S. G. Ingle</b>		
Ilnd unit notes point	<a href="https://drive.google.com/file/d/0B6Sbju1MOtoIR3VxT2IVWkZIVE0/edit">https://drive.google.com/file/d/0B6Sbju1MOtoIR3VxT2IVWkZIVE0/edit</a>	<b>S. G. Ingle</b>		
Assignment 1st protocol	<a href="https://drive.google.com/file/d/0B6Sbju1MOtoINE5VSjNXVWkyc0k/edit">https://drive.google.com/file/d/0B6Sbju1MOtoINE5VSjNXVWkyc0k/edit</a>	<b>S. G. Ingle</b>		
Gene structure	<a href="https://drive.google.com/file/d/1OFKTAxHroOH9N67i5I6oA0JiVQr_G2Vh/edit">https://drive.google.com/file/d/1OFKTAxHroOH9N67i5I6oA0JiVQr_G2Vh/edit</a>	<b>S. G. Ingle</b>		
Automated sequencing	<a href="https://drive.google.com/file/d/1t7X4DA67nOi8--0bVCy3T7aasHe8R1SW/edit">https://drive.google.com/file/d/1t7X4DA67nOi8--0bVCy3T7aasHe8R1SW/edit</a>	<b>S. G. Ingle</b>		
cap elec dna rev	<a href="https://drive.google.com/file/d/1odp2PtVCmsrdEkT3nMHGQbT87IrrRvMM/edit">https://drive.google.com/file/d/1odp2PtVCmsrdEkT3nMHGQbT87IrrRvMM/edit</a>	<b>S. G. Ingle</b>		
X-ray crystallography	<a href="https://drive.google.com/file/d/19VsflvTGx6BBel1cJUetxMM0Glx19BjS/edit">https://drive.google.com/file/d/19VsflvTGx6BBel1cJUetxMM0Glx19BjS/edit</a>	<b>S. G. Ingle</b>		

**M. Sc. Part – I (Semester – II)**

**Google Classrooms**

S.N.	Name of the Teacher	Joining Link	Class Code
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Notes and PowerPoints			Links to Video Lectures		
Topic	Link	Teacher	Topic	Link	Teacher
Current DNA sequencing technologies	<a href="https://drive.google.com/file/d/1xzMZOF4KI8UqqrC7JMsJrgX9Of0Q7nBd/edit">https://drive.google.com/file/d/1xzMZOF4KI8UqqrC7JMsJrgX9Of0Q7nBd/edit</a>	S. G. Ingle			
Sequencing of the entire human genome	<a href="https://drive.google.com/file/d/1SCpgSVJeO1yOVP9aG4ZqHI4spEIGVyzc/edit">https://drive.google.com/file/d/1SCpgSVJeO1yOVP9aG4ZqHI4spEIGVyzc/edit</a>	S. G. Ingle			
Relevance of comparative	<a href="https://drive.google.com/file/d/1luEK6PRgpbW5QTSMYXYA6NdRd3WUboAH/edit">https://drive.google.com/file/d/1luEK6PRgpbW5QTSMYXYA6NdRd3WUboAH/edit</a>	S. G. Ingle			
Construction of Physical mapping	<a href="https://drive.google.com/file/d/1oB3ckUtOi1oVCzcfy1QZxQ-rKewmRF1/edit">https://drive.google.com/file/d/1oB3ckUtOi1oVCzcfy1QZxQ-rKewmRF1/edit</a>	S. G. Ingle			
Gene order and chromosome rearrangement	<a href="https://drive.google.com/file/d/1aUu8Gzy8KUyfrBClr_7Ncvn28udqP3z/edit">https://drive.google.com/file/d/1aUu8Gzy8KUyfrBClr_7Ncvn28udqP3z/edit</a>	S. G. Ingle			
Sequence repeats and other	<a href="https://drive.google.com/file/d/1W-wFRjAr32zwqph3nqv0sRNXBNxtr3rn/edit">https://drive.google.com/file/d/1W-wFRjAr32zwqph3nqv0sRNXBNxtr3rn/edit</a>	S. G. Ingle			
Gene Expression, Analysis Methods, Global Expression	<a href="https://drive.google.com/file/d/18dnyK9ZUHmWg3lw-vJsIKDI3aokxxNBF/edit">https://drive.google.com/file/d/18dnyK9ZUHmWg3lw-vJsIKDI3aokxxNBF/edit</a>	S. G. Ingle			
CLADISTICS and ontology	<a href="https://drive.google.com/file/d/1goE9--wSgIN33jesWZfUH7ZD0Zv7u_U9/edit">https://drive.google.com/file/d/1goE9--wSgIN33jesWZfUH7ZD0Zv7u_U9/edit</a>	S. G. Ingle			
Minimal genome	<a href="https://drive.google.com/file/d/1QysW7yAXWqCWdZj4v-4Ay8YEvvWdtgTt/edit">https://drive.google.com/file/d/1QysW7yAXWqCWdZj4v-4Ay8YEvvWdtgTt/edit</a>	S. G. Ingle			
Introduction to genome Analysis, Gene analysis	<a href="https://drive.google.com/file/d/1xh8oo3Xmvmp9PVaaCDmAe47280tT3pXw/edit">https://drive.google.com/file/d/1xh8oo3Xmvmp9PVaaCDmAe47280tT3pXw/edit</a>	S. G. Ingle			
Concepts of SNP	<a href="https://drive.google.com/file/d/1sQ1XbGVNokJXLCMI0jpWN2N4J61JsMI_/edit">https://drive.google.com/file/d/1sQ1XbGVNokJXLCMI0jpWN2N4J61JsMI_/edit</a>	S. G. Ingle			
Applications of DNA microarray	<a href="https://drive.google.com/file/d/1FjjGw4E2Pk126LDu4LlIaahMViDSuJNN/edit">https://drive.google.com/file/d/1FjjGw4E2Pk126LDu4LlIaahMViDSuJNN/edit</a>	S. G. Ingle			
Basics of radiation hybrid mapping	<a href="https://drive.google.com/file/d/1GzhOr0NOo17QToGJyu29SIfn7OVegn4T/edit">https://drive.google.com/file/d/1GzhOr0NOo17QToGJyu29SIfn7OVegn4T/edit</a>	S. G. Ingle			
Genome diversity	<a href="https://drive.google.com/file/d/1AnEbmclG38FSfQ_FF7y4TdZ806AIMKzX/edit">https://drive.google.com/file/d/1AnEbmclG38FSfQ_FF7y4TdZ806AIMKzX/edit</a>	S. G. Ingle			
Genome annotation	<a href="https://drive.google.com/file/d/1XXirFi7g7a">https://drive.google.com/file/d/1XXirFi7g7a</a>	S. G. Ingle			

	<a href="https://drive.google.com/file/d/1Av1XnibJpJs4pU8iHkO0-QgyCaobdrkC/edit">y- PYP68pcJHKW82vCZ9M/edit</a>			
Gene Identification and prediction	<a href="https://drive.google.com/file/d/1Av1XnibJpJs4pU8iHkO0-QgyCaobdrkC/edit">https://drive.google.com/file/d/1Av1XnibJpJs4pU8iHkO0-QgyCaobdrkC/edit</a>	S. G. Ingle		
Genome Mapping	<a href="https://drive.google.com/file/d/1QqiW9epw3LE65tcP0P4RaY01TL5nHOoA/edit">https://drive.google.com/file/d/1QqiW9epw3LE65tcP0P4RaY01TL5nHOoA/edit</a>	S. G. Ingle		
Genome maps and types	<a href="https://drive.google.com/file/d/1EsQ1ypXPVfBDOuDOqGfzZSEqoqdD8RAk/edit">https://drive.google.com/file/d/1EsQ1ypXPVfBDOuDOqGfzZSEqoqdD8RAk/edit</a>	S. G. Ingle		
Computational Genomics	<a href="https://drive.google.com/file/d/1722qz5qfUeizDtxwbrLQPzOJ YFsltM0/edit">https://drive.google.com/file/d/1722qz5qfUeizDtxwbrLQPzOJ YFsltM0/edit</a>	S. G. Ingle		
Introduction to genomics	<a href="https://drive.google.com/file/d/11WuqwlFIF6aWyVSJbNMehQX0hBXjyW 5/edit">https://drive.google.com/file/d/11WuqwlFIF6aWyVSJbNMehQX0hBXjyW 5/edit</a>	S. G. Ingle		
Introduction to Phylogenetic	<a href="https://drive.google.com/file/d/1pbu0cnhOU1ScFY X5Y8dZ8-A9Pim6S x/edit">https://drive.google.com/file/d/1pbu0cnhOU1ScFY X5Y8dZ8-A9Pim6S x/edit</a>	S. G. Ingle		
Comparative genomics of prokaryotes	<a href="https://drive.google.com/file/d/1ox4B21j1isBfIN5L4zINlqGLknlvSxOf/edit">https://drive.google.com/file/d/1ox4B21j1isBfIN5L4zINlqGLknlvSxOf/edit</a>	S. G. Ingle		
Vertical and horizontal gene transfer	<a href="https://drive.google.com/file/d/1B5JMyaugVbuexAtCb56XJz70KGlyzkhS/edit">https://drive.google.com/file/d/1B5JMyaugVbuexAtCb56XJz70KGlyzkhS/edit</a>	S. G. Ingle		
BLAST TOOL	<a href="https://drive.google.com/file/d/1BFkHNp6Ly3sYq pe2Yh8LUDH309X9pz/edit">https://drive.google.com/file/d/1BFkHNp6Ly3sYq pe2Yh8LUDH309X9pz/edit</a>	S. G. Ingle		
Epitope prediction	<a href="https://drive.google.com/file/d/1Fibyt7KjMxkh4045x46Q6By0xEtnQskT/edit">https://drive.google.com/file/d/1Fibyt7KjMxkh4045x46Q6By0xEtnQskT/edit</a>	S. G. Ingle		
Clustering of genes and composite gene	<a href="https://drive.google.com/file/d/1BLJpANnsy1z2iNL8F4KD6 -E0Heriou/edit">https://drive.google.com/file/d/1BLJpANnsy1z2iNL8F4KD6 -E0Heriou/edit</a>	S. G. Ingle		
SNPs	<a href="https://drive.google.com/file/d/1kaZs98Q5m9Jaael48iVsZXh5zKUSrvSI/edit">https://drive.google.com/file/d/1kaZs98Q5m9Jaael48iVsZXh5zKUSrvSI/edit</a>	S. G. Ingle		
Chromosomal rearrangement	<a href="https://drive.google.com/file/d/1KxO9zBwcT CVdLwJshohITv52z3vHtDpV/edit">https://drive.google.com/file/d/1KxO9zBwcT CVdLwJshohITv52z3vHtDpV/edit</a>	S. G. Ingle		
DNA array for global expression profile	<a href="https://drive.google.com/file/d/10PMEOPU2T2 WvxdQ773g1IF6YBsNzFRP/edit">https://drive.google.com/file/d/10PMEOPU2T2 WvxdQ773g1IF6YBsNzFRP/edit</a>	S. G. Ingle		
Gene Expression	<a href="https://drive.google.com/file/d/1QP7t7GN2r6R5aFGjgfpQUA01oiuOaS-4/edit">https://drive.google.com/file/d/1QP7t7GN2r6R5aFGjgfpQUA01oiuOaS-4/edit</a>	S. G. Ingle		
Genome databases	<a href="https://drive.google.com/file/d/1WLCWij9oywAvhDeUnvI5v4jIhoQkZk-P/edit">https://drive.google.com/file/d/1WLCWij9oywAvhDeUnvI5v4jIhoQkZk-P/edit</a>	S. G. Ingle		
Gene Prediction	<a href="https://drive.google.com/file/d/1c2qjCwv-bDGmeMtbyA1009uFxlP2GMYU/edit">https://drive.google.com/file/d/1c2qjCwv-bDGmeMtbyA1009uFxlP2GMYU/edit</a>	S. G. Ingle		
Genome organisation prokaryotic	<a href="https://drive.google.com/file/d/1KsuELnM6n0u9TaS3wa0sWy5CxfQ8Rdvv/edit">https://drive.google.com/file/d/1KsuELnM6n0u9TaS3wa0sWy5CxfQ8Rdvv/edit</a>	S. G. Ingle		
Gene ontology	<a href="https://drive.google.com/file/d/1yBclW6JH">https://drive.google.com/file/d/1yBclW6JH</a>	S. G. Ingle		

	<a href="https://drive.google.com/file/d/URe4qVWPN9NKi8tfVDvg2ldK/edit">URe4qVWPN9NKi8tfVDvg2ldK/edit</a>				
Neighbour joining method	<a href="https://drive.google.com/file/d/1XxzTSnktw0Ff8xsT9Lomhg1wzjuv51cP/edit">https://drive.google.com/file/d/1XxzTSnktw0Ff8xsT9Lomhg1wzjuv51cP/edit</a>	<b>S. G. Ingle</b>			
Phylogenetic lecture	<a href="https://drive.google.com/file/d/172nspOBtoqhb-P1G9ezzUSWjUgMXHE7f/edit">https://drive.google.com/file/d/172nspOBtoqhb-P1G9ezzUSWjUgMXHE7f/edit</a>	<b>S. G. Ingle</b>			
Prediction of ORFs	<a href="https://drive.google.com/file/d/1f5uPzAfiPLVPf-U3LfH3zecPUufVPWY/edit">https://drive.google.com/file/d/1f5uPzAfiPLVPf-U3LfH3zecPUufVPWY/edit</a>	<b>S. G. Ingle</b>			
Microarray	<a href="https://drive.google.com/file/d/1eIUafSjxP2mVPDYm92Rik9Uq5V36Xc6k/edit">https://drive.google.com/file/d/1eIUafSjxP2mVPDYm92Rik9Uq5V36Xc6k/edit</a>	<b>S. G. Ingle</b>			
Organization of the prokaryotic and eukaryotic genome	<a href="https://drive.google.com/file/d/1tkwszHSrVVGbrYHHV7qimA4h05NP05zk/edit">https://drive.google.com/file/d/1tkwszHSrVVGbrYHHV7qimA4h05NP05zk/edit</a>	<b>S. G. Ingle</b>			
CLADISTICS	<a href="https://drive.google.com/file/d/1u7huZYLjWHFuHee9T06g-m4hxyhTuWTi/edit">https://drive.google.com/file/d/1u7huZYLjWHFuHee9T06g-m4hxyhTuWTi/edit</a>	<b>S. G. Ingle</b>			
dbSNP	<a href="https://drive.google.com/file/d/1ayF8nC19mCoFaoNJRtseBXUKQPtBcwf7/edit">https://drive.google.com/file/d/1ayF8nC19mCoFaoNJRtseBXUKQPtBcwf7/edit</a>	<b>S. G. Ingle</b>			
Principles genome analysis and genomics	<a href="https://drive.google.com/file/d/1ucDMvMo9vZALRcv0oPWISGh0hcR8xr80/edit">https://drive.google.com/file/d/1ucDMvMo9vZALRcv0oPWISGh0hcR8xr80/edit</a>	<b>S. G. Ingle</b>			

**M. Sc. Part – II (Semester – III)**

**Google Classrooms**

S.N.	Name of the Teacher	Joining Link	Class Code

Notes and PowerPoints			Links to Video Lectures		
Topic	Link	Teacher	Topic	Link	Teacher
Basic principles _protein struct generations	<a href="https://drive.google.com/file/d/13lzLJqU3KdHdbFhDVVcB-259SRdlkRSZ/edit">https://drive.google.com/file/d/13lzLJqU3KdHdbFhDVVcB-259SRdlkRSZ/edit</a>	S. G. Ingle			
26 Ab initio - threading	<a href="https://drive.google.com/file/d/1Uew8WuU8RO1e9JG-ggAbHLViHYdemhD7/edit">https://drive.google.com/file/d/1Uew8WuU8RO1e9JG-ggAbHLViHYdemhD7/edit</a>	S. G. Ingle			
ab-initio_protein_structure_modelling	<a href="https://drive.google.com/file/d/1QPz_lf9GO8K22AZQaRz7Z1axg4k9t6yr/edit">https://drive.google.com/file/d/1QPz_lf9GO8K22AZQaRz7Z1axg4k9t6yr/edit</a>	S. G. Ingle			
GOR_algorithm	<a href="https://drive.google.com/file/d/1E5Qc2F2y0SGuZNxDk0laQsDYlLqzzyx-/edit">https://drive.google.com/file/d/1E5Qc2F2y0SGuZNxDk0laQsDYlLqzzyx-/edit</a>	S. G. Ingle			
Homology Modeling	<a href="https://drive.google.com/file/d/1JAQtWUd7oZHvS8975FesmiEa1RIellht/edit">https://drive.google.com/file/d/1JAQtWUd7oZHvS8975FesmiEa1RIellht/edit</a>	S. G. Ingle			
Concepts in measuring the accuracy of	<a href="https://drive.google.com/file/d/1zy8_wgqhd3Sr1CEaD6-UNK5BRvJKrjni/edit">https://drive.google.com/file/d/1zy8_wgqhd3Sr1CEaD6-UNK5BRvJKrjni/edit</a>	S. G. Ingle			
Protein structure validation	<a href="https://drive.google.com/file/d/1BI29sktp8zIVeFX7m9GrwDUcx04BOOQi/edit">https://drive.google.com/file/d/1BI29sktp8zIVeFX7m9GrwDUcx04BOOQi/edit</a>	S. G. Ingle			
Theoretical basis of the methods for structure prediction	<a href="https://drive.google.com/file/d/14o_onY1nhvqBBfIODL074i8Np0y0dBdG5/edit">https://drive.google.com/file/d/14o_onY1nhvqBBfIODL074i8Np0y0dBdG5/edit</a>	S. G. Ingle			
PMDB - Protein Model Database.	<a href="https://drive.google.com/file/d/13fqWMqHhO4tNSzob_X7psXVPNBTh4gv-/edit">https://drive.google.com/file/d/13fqWMqHhO4tNSzob_X7psXVPNBTh4gv-/edit</a>	S. G. Ingle			
Example	<a href="https://drive.google.com/file/d/1lgZ4oQd08hnD7O6mtA_w9nVRTK0SVzh">https://drive.google.com/file/d/1lgZ4oQd08hnD7O6mtA_w9nVRTK0SVzh</a>	S. G. Ingle			

	<a href="#">K/edit</a>				
q3scor	<a href="https://drive.google.com/file/d/1nHPbaZhqO4dpDqxcBruTW6kHA_nNGk6v/edit">https://drive.google.com/file/d/1nHPbaZhqO4dpDqxcBruTW6kHA_nNGk6v/edit</a>	S. G. Ingle			
chou-fasman-1974	<a href="https://drive.google.com/file/d/12V4Rc4oCzwyACkBnd6HhjTROHVyY0MyZ/edit">https://drive.google.com/file/d/12V4Rc4oCzwyACkBnd6HhjTROHVyY0MyZ/edit</a>	S. G. Ingle			
3d_structure_validation	<a href="https://drive.google.com/file/d/1d7oFtIIFVf1KXyiGso6WAD16kv-bOaWG/edit">https://drive.google.com/file/d/1d7oFtIIFVf1KXyiGso6WAD16kv-bOaWG/edit</a>	S. G. Ingle			
Unit 1-Life cycle, Infectivity, Demographic distribution of Malaria	<a href="https://docs.google.com/presentation/d/1VUTg5OoEXP_vsIkklpXRL1BkQ0GQ9aT/edit#slide=id.p1">https://docs.google.com/presentation/d/1VUTg5OoEXP_vsIkklpXRL1BkQ0GQ9aT/edit#slide=id.p1</a>	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Leishmania	<a href="https://docs.google.com/presentation/d/1hEtGLPq0lhRiG_wdswnMVFc_b3D4LBT7G/edit#slide=id.p1">https://docs.google.com/presentation/d/1hEtGLPq0lhRiG_wdswnMVFc_b3D4LBT7G/edit#slide=id.p1</a>	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Trypanosoma	<a href="https://docs.google.com/presentation/d/1924SHmotwN-ObX6aFm-VulQyx8xz6EnS/edit#slide=id.p1">https://docs.google.com/presentation/d/1924SHmotwN-ObX6aFm-VulQyx8xz6EnS/edit#slide=id.p1</a> <a href="https://youtu.be/_mZlzMU100Y">https://youtu.be/_mZlzMU100Y</a>	M. B. Ghormade			
Unit 1-Life cycle, Infectivity, Demographic distribution of Filariasis	<a href="https://docs.google.com/presentation/d/1jGy-cnFWIRALYboEH0EjPHE7FTQ94b-0/edit#slide=id.p1">https://docs.google.com/presentation/d/1jGy-cnFWIRALYboEH0EjPHE7FTQ94b-0/edit#slide=id.p1</a> <a href="https://youtu.be/BBWePqINg9s">https://youtu.be/BBWePqINg9s</a>	M. B. Ghormade			
Unit1-Role of Bioinformatics in disease monitoring	<a href="https://docs.google.com/presentation/d/1kHIZelMfaaq8S8WFsODIGKm0h3IHWyx9/edit#slide=id.p1">https://docs.google.com/presentation/d/1kHIZelMfaaq8S8WFsODIGKm0h3IHWyx9/edit#slide=id.p1</a>	M. B. Ghormade			
Unit2-Parasite Genome and Proteome Databases (AnoBase, ENSEMBL, Notredame, PlasmoDB)	<a href="https://docs.google.com/presentation/d/1nmyKFYrKbmHyC8DRVJxLiEMG_2qPIpxn/edit#slide=id.p1">https://docs.google.com/presentation/d/1nmyKFYrKbmHyC8DRVJxLiEMG_2qPIpxn/edit#slide=id.p1</a> <a href="https://youtu.be/rz2TmDsMhHM">https://youtu.be/rz2TmDsMhHM</a>	M. B. Ghormade			

<b>Unit2-Biology of vector</b>	<a href="https://docs.google.com/presentation/d/1pUIR1lx44rMng-bwE4tmaSyXw8ddeeAj/edit#slide=id.p1">https://docs.google.com/presentation/d/1pUIR1lx44rMng-bwE4tmaSyXw8ddeeAj/edit#slide=id.p1</a>  <a href="https://youtu.be/q3-zoPGiEkl">https://youtu.be/q3-zoPGiEkl</a>	<b>M. B. Ghormade</b>			
<b>Unit2- Application of Bioinformatics Data Mining tools for Identification of: Parasite-specific genes/gene products(e.g.housekeeping genes,gene essential for survival)</b>	<a href="https://docs.google.com/presentation/d/1QzZgnJqPfqPKUXhQgZZ3aCy4ntwkWTbl/edit#slide=id.p1">https://docs.google.com/presentation/d/1QzZgnJqPfqPKUXhQgZZ3aCy4ntwkWTbl/edit#slide=id.p1</a>	<b>M. B. Ghormade</b>			
<b>Unit2-Resistant genes</b>	<a href="https://docs.google.com/presentation/d/1IJNdk9w4VNqK7eBbfvbhg3JERVO-3RVd/edit#slide=id.p1">https://docs.google.com/presentation/d/1IJNdk9w4VNqK7eBbfvbhg3JERVO-3RVd/edit#slide=id.p1</a>	<b>M. B. Ghormade</b>			
<b>Unit3-Full genome comparison</b>	<a href="https://docs.google.com/presentation/d/1SNrSQtJsN3m5DCzaG57s6Ce4cE94Q-Qx/edit#slide=id.p1">https://docs.google.com/presentation/d/1SNrSQtJsN3m5DCzaG57s6Ce4cE94Q-Qx/edit#slide=id.p1</a>  <a href="https://youtu.be/Vk-6OW5bTxE">https://youtu.be/Vk-6OW5bTxE</a>	<b>M. B. Ghormade</b>			
<b>Unit3-Gene prediction</b>	<a href="https://docs.google.com/presentation/d/1FjFt2Dfyu_wugVPVU0ro9OPFWNgHRO-k/edit#slide=id.p1">https://docs.google.com/presentation/d/1FjFt2Dfyu_wugVPVU0ro9OPFWNgHRO-k/edit#slide=id.p1</a>  <a href="https://youtu.be/AoqcWGJv-W4">https://youtu.be/AoqcWGJv-W4</a>	<b>M. B. Ghormade</b>			
<b>Unit3-Signal sequence prediction</b>	<a href="https://docs.google.com/presentation/d/1FjFt2Dfyu_wugVPVU0ro9OPFWNgHRO-k/edit#slide=id.p1">https://docs.google.com/presentation/d/1FjFt2Dfyu_wugVPVU0ro9OPFWNgHRO-k/edit#slide=id.p1</a>	<b>M. B. Ghormade</b>			
<b>Unit3-Protein sequence comparison and analysis</b>	<a href="https://docs.google.com/presentation/d/19g7t8JelSXCIQkfW6pGtKHpe">https://docs.google.com/presentation/d/19g7t8JelSXCIQkfW6pGtKHpe</a>	<b>M. B. Ghormade</b>			



	<a href="https://docs.google.com/presentation/d/1Ekwjlgjn0gZaaow1gaVeYigqMLP-6GpE/edit#slide=id.p1">JrGf8Tcb/edit#slide=id.p1</a>				
<b>Unit3-Protein structure comparison and analysis</b>	<a href="https://docs.google.com/presentation/d/1Ekwjlgjn0gZaaow1gaVeYigqMLP-6GpE/edit#slide=id.p1">https://docs.google.com/presentation/d/1Ekwjlgjn0gZaaow1gaVeYigqMLP-6GpE/edit#slide=id.p1</a>  <a href="https://youtu.be/PPJ7C3hcnPw">https://youtu.be/PPJ7C3hcnPw</a>	M. B. Ghormade			
<b>Unit3-Microarray data analysis</b>	<a href="https://docs.google.com/presentation/d/13lqbd7_SGZnQzuamRz_D-UnLb_xA90mZ/edit#slide=id.p1">https://docs.google.com/presentation/d/13lqbd7_SGZnQzuamRz_D-UnLb_xA90mZ/edit#slide=id.p1</a>  <a href="https://youtu.be/7SXpxwcpGnc">https://youtu.be/7SXpxwcpGnc</a>	M. B. Ghormade			
<b>Unit3-Proteomics data analysis</b>	<a href="https://docs.google.com/presentation/d/1rda-uK45nOX5OwLtZa4JaZDnMKTi4Eh2/edit#slide=id.p1">https://docs.google.com/presentation/d/1rda-uK45nOX5OwLtZa4JaZDnMKTi4Eh2/edit#slide=id.p1</a>	M. B. Ghormade			
<b>Unit4-Recognition and entry process of different pathogens like bacteria and viruses into animal and plant host cells</b>	<a href="https://docs.google.com/presentation/d/1xaX7hfOfhgs8o-ejws0kR-LlwkgDW09/edit#slide=id.p1">https://docs.google.com/presentation/d/1xaX7hfOfhgs8o-ejws0kR-LlwkgDW09/edit#slide=id.p1</a>	M. B. Ghormade			
<b>Unit4-Alteration of host cell behavior by pathogens</b>	<a href="https://docs.google.com/presentation/d/11KtysMEA1v8isxfMofm_qXxKJ5-whP6G/edit#slide=id.p1">https://docs.google.com/presentation/d/11KtysMEA1v8isxfMofm_qXxKJ5-whP6G/edit#slide=id.p1</a>	M. B. Ghormade			
<b>Unit4-Virus-induced cell transformation</b>	<a href="https://docs.google.com/presentation/d/1Ext8wN5SCVnLoojf3f-ivPydT4Oqcinm/edit#slide=id.p1">https://docs.google.com/presentation/d/1Ext8wN5SCVnLoojf3f-ivPydT4Oqcinm/edit#slide=id.p1</a>	M. B. Ghormade			
<b>Unit4-Pathogen induced diseases in animal and plants</b>	<a href="https://docs.google.com/presentation/d/1BXigbQgwecxnnjPzQhzUnQ0WXHzqbafg/edit#slide=id.p2">https://docs.google.com/presentation/d/1BXigbQgwecxnnjPzQhzUnQ0WXHzqbafg/edit#slide=id.p2</a>	M. B. Ghormade			
<b>Unit5-Host vector parasite</b>	<a href="https://docs.google.com/presentation/d/1Ext8wN5SCVnLoojf3f-ivPydT4Oqcinm/edit#slide=id.p1">https://docs.google.com/presentation/d/1Ext8wN5SCVnLoojf3f-ivPydT4Oqcinm/edit#slide=id.p1</a>	M. B. Ghormade			

<b>interaction</b>	<a href="#">on/d/1Y_CacEdeI9kbsbNA7T15jiSfaARir1/edit#slide=id.p1</a>				

**M. Sc. Part – II (Semester – IV)**

**Google Classrooms**

S.N.	Name of the Teacher	Joining Link	Class Code

Notes and PowerPoints			Links to Video Lectures		
Topic	Link	Teacher	Topic	Link	Teacher
Current Chemo-informatics	<a href="https://drive.google.com/file/d/1vF8Jjrn1gWNvFA4Kihp7aUXPfxHehWK6/edit">https://drive.google.com/file/d/1vF8Jjrn1gWNvFA4Kihp7aUXPfxHehWK6/edit</a>	S. G. Ingle			
Database search methods	<a href="https://drive.google.com/file/d/1O67juVEII-umI07QzvyUJhU9dAmqclhV/edit">https://drive.google.com/file/d/1O67juVEII-umI07QzvyUJhU9dAmqclhV/edit</a>	S. G. Ingle			
Chemo informatics Introduction	<a href="https://drive.google.com/file/d/1eXeel5z164mqPdyTcbXxRePsa3sZFC-/edit">https://drive.google.com/file/d/1eXeel5z164mqPdyTcbXxRePsa3sZFC-/edit</a>	S. G. Ingle			
Chemo-informatics scope and applications	<a href="https://drive.google.com/file/d/1aIEKwKakoTdR4uJGvwKELrylh-bmP8ke/edit">https://drive.google.com/file/d/1aIEKwKakoTdR4uJGvwKELrylh-bmP8ke/edit</a>	S. G. Ingle			
Copy of Database search methods	<a href="https://drive.google.com/file/d/1b1m-zLjCn1ZVUxAzjqGDv5XE26PkOfGF/edit">https://drive.google.com/file/d/1b1m-zLjCn1ZVUxAzjqGDv5XE26PkOfGF/edit</a>	S. G. Ingle			
Combinatorial chemistry	<a href="https://drive.google.com/file/d/10XHOXzOQwvy2JXf1RkQfqq-5ggY19GTI/edit">https://drive.google.com/file/d/10XHOXzOQwvy2JXf1RkQfqq-5ggY19GTI/edit</a>	S. G. Ingle			
Introduction to quantum methods	<a href="https://drive.google.com/file/d/1rsQzadQvwb0b5NS6Pvgmt-CraCcnuo0h/edit">https://drive.google.com/file/d/1rsQzadQvwb0b5NS6Pvgmt-CraCcnuo0h/edit</a>	S. G. Ingle			
Introduction to spectroscopy	<a href="https://drive.google.com/file/d/1kCve3dJ94n7rb82OBTJRRJC1Ls9iOiG/edit">https://drive.google.com/file/d/1kCve3dJ94n7rb82OBTJRRJC1Ls9iOiG/edit</a>	S. G. Ingle			
Different types of Notations, SMILES Coding	<a href="https://drive.google.com/file/d/10pj8MyzliJksGY-wRmZFBt3wbievItMb/edit">https://drive.google.com/file/d/10pj8MyzliJksGY-wRmZFBt3wbievItMb/edit</a>	S. G. Ingle			
Different types of Notations, SMILES Coding	<a href="https://drive.google.com/file/d/1JyP">https://drive.google.com/file/d/1JyP</a>	S. G. Ingle			

	<a href="https://drive.google.com/file/d/1GkphItOvbOdE6QFwKgomMfiH95lIE5Kg/edit">PbXSJ0njq9shiPKi5hOoiSf241L8/edit</a>			
Analysis and use of chemical reaction information	<a href="https://drive.google.com/file/d/1GkphItOvbOdE6QFwKgomMfiH95lIE5Kg/edit">https://drive.google.com/file/d/1GkphItOvbOdE6QFwKgomMfiH95lIE5Kg/edit</a>	S. G. Ingle		
Analysis and use of chemical reaction information	<a href="https://drive.google.com/file/d/1tY5i1cfvYTrKRnXdP5GPMPyvUwkCfvv/edit">https://drive.google.com/file/d/1tY5i1cfvYTrKRnXdP5GPMPyvUwkCfvv/edit</a>	S. G. Ingle		
Lead(Drug) Identification	<a href="https://drive.google.com/file/d/1SksH6vIzZfF1tiDVGvqI7RSR2KTDYEXQB/edit">https://drive.google.com/file/d/1SksH6vIzZfF1tiDVGvqI7RSR2KTDYEXQB/edit</a>	S. G. Ingle		
Dragon molecular descriptor list	<a href="https://drive.google.com/file/d/1ox6ycyOFK14IVzR826Yn42jQgo14Vihu/edit">https://drive.google.com/file/d/1ox6ycyOFK14IVzR826Yn42jQgo14Vihu/edit</a>	S. G. Ingle		
Lead(Drug) Identification	<a href="https://drive.google.com/file/d/1kngJmzLeO-QITGh9RwNw-L81mSrhO85Z/edit">https://drive.google.com/file/d/1kngJmzLeO-QITGh9RwNw-L81mSrhO85Z/edit</a>	S. G. Ingle		
Applications of Chemo informatics in Drug Research	<a href="https://drive.google.com/file/d/1DOvLuLpu8e8DQUHPbD3MCEFPk7gGiWNy/edit">https://drive.google.com/file/d/1DOvLuLpu8e8DQUHPbD3MCEFPk7gGiWNy/edit</a>	S. G. Ingle		
Homology Modelling using Modeller	<a href="https://drive.google.com/file/d/1PihM3L39sjlJvai74qvcmpDOXM2X5Qe-/edit">https://drive.google.com/file/d/1PihM3L39sjlJvai74qvcmpDOXM2X5Qe-/edit</a>	S. G. Ingle		
Toxicity Analysis- Pharmacological Properties	<a href="https://drive.google.com/file/d/1gTJrL-rgJBT2sbd-bdJAWFhc-5h6iWrE/edit">https://drive.google.com/file/d/1gTJrL-rgJBT2sbd-bdJAWFhc-5h6iWrE/edit</a>	S. G. Ingle		
Structure based drug designing	<a href="https://drive.google.com/file/d/1PvAu-kQIMXe4zRz6LyrJAhXvyEsw6BZn/edit">https://drive.google.com/file/d/1PvAu-kQIMXe4zRz6LyrJAhXvyEsw6BZn/edit</a>	S. G. Ingle		
Target Identification	<a href="https://drive.google.com/file/d/1CHTHomaQKpUHHGvBeI5T8IKbpDFZfU9g/edit">https://drive.google.com/file/d/1CHTHomaQKpUHHGvBeI5T8IKbpDFZfU9g/edit</a>	S. G. Ingle		
Introduction to drug designing	<a href="https://drive.google.com/file/d/19IVysY54C8IVHdcOSSYaxZttQ9wMAma/edit">https://drive.google.com/file/d/19IVysY54C8IVHdcOSSYaxZttQ9wMAma/edit</a>	S. G. Ingle		