

Classes from 16th – 31st march, 2020

[VI.6.3 in silico Biology]

Dear Students, We will continue our teaching learning process through online resources only for the time being, so that all of us remain safe in this crucial pandemic situation developed due to COVID-19.

We will be continuing our google group and Whatsapp group “Bio (Mahima maam)”, where I will keep on sharing some online material to go through for the class. Also, I will be mailing/uploading the tutorials, research papers for project work and youtube links, which you may go through especially for learning the engineering kitchen activities. Almost all engineering kitchen activities need learning the applications of related softwares, which are mostly freely available/ accessible online, so all of you are required to go through them for taking care of the assignments given in the class. As already discussed in class, we will be continuing with our weekly assignments for the internal assessment and project part. Also, I am pasting the syllabus of this course once again for all of you to go through to have a look on the pending topics, which will be covered in the coming classes.

Engineering Kitchen Activity [Laboratory]:

Sequence analysis (BLAST, FASTA).
Database (NCBI, DDBJ, EMBL).
Motif and Promoter searches (e.g. CD-Search, SMART, SignalP).
Phylogenetic analysis (PHYLIP, MEGA).
Protein interaction (STRING, BioGRID).
Protein structure, Function (PROSITE programs, Chimera).
Gene expression, function (GEA, Gene card, OMIM).
Innovation Project

Wish you all the very best for this new experience of life. Hope, all of you would utilize this opportunity to do some constructive work.

**Best wishes
Mahima Kaushik**