

# 3 MONTHS PROGRAM PLAN

MONTH	WEEK	ACTIVITY	CURRICULUM
1	1	Video drop and study materials	<b>THE FUNDAMENTALS OF BIOINFORMATICS</b> <ul style="list-style-type: none"> <li>• Introductory bioinformatics</li> <li>• Database, internet tools and their application</li> <li>• Practical introduction study of the basics and major bioinformatics analytical software tools, pipelines and their application</li> </ul>
	2	Video drop and study materials	<ul style="list-style-type: none"> <li>• Multiple sequence alignment</li> <li>• Phylogenetics analysis</li> </ul>
	3	Video drop and study materials	Bacteria phylogenetic analysis at genome level
	4	Live session	Zoom meeting: live practical guide and completion of the course, review, discussion (q & a) and evaluation.
2	1	Video drop and study materials	<b>PROFESSIONAL COURSE: COMPREHENSIVE AND FUNCTIONAL GENOMICS (NGS DATA ANALYSIS)</b> <ul style="list-style-type: none"> <li>• Accessing of reads on database and processing</li> <li>• Genome assembly</li> </ul>
	2	Video drop and study materials	<ul style="list-style-type: none"> <li>• Genome annotation</li> <li>• Gene prediction</li> </ul>
	3	Video drop and study materials	<ul style="list-style-type: none"> <li>• Evaluation of result for study</li> </ul>
	4	Live session	<b>ZOOM MEETING: LIVE PRACTICAL GUIDE AND COMMENCEMENT OF RESEARCH PROJECT</b> <ul style="list-style-type: none"> <li>• Aims of objective</li> <li>• Exploring an individual complete genome to study certain functional roles or features and evolutionary relationships</li> <li>• Building workflow</li> <li>• Commencing bioinformatics analysis</li> </ul>
3	1	"	<ul style="list-style-type: none"> <li>• Evaluation of results</li> </ul>
	2	"	<ul style="list-style-type: none"> <li>• Compute your result data (visualization)</li> <li>• Interpret/discussion</li> </ul>
	3	"	<ul style="list-style-type: none"> <li>• Finalized literature reviews</li> </ul>
	4	"	<ul style="list-style-type: none"> <li>• Conclusion and references</li> </ul>
			<b>GRADUATION</b>