

CURRICULUM PLAN (July. -Dec., 2022)

Dr. MAYANGLAMBAM ROJINA DEVI

Subject- **Animal Biotechnology (CORE; Theory)**

Class- **B. Sc. Life Sciences VI**

Shared with- **Dr. Priya Singh**

Contents	Allocation of lectures	Month-wise schedule to be followed	Tutorial/ Assignments / Presentations
Unit 1: Unit 2 Molecular techniques in Gene Manipulation <ul style="list-style-type: none">Cloning vectors: Plasmids, Cosmids, Phagemids, Lambda, Bacteriophage, M13	10 lectures	July- August	<ul style="list-style-type: none">Overall introduction to this paperPPT with relevant pictures and videos
<ul style="list-style-type: none">Restriction enzymes: Nomenclature, detailed study of Type II.Transformation techniques: Calcium chloride method and electroporation.Polymerase Chain Reaction,	10 lectures	September	<ul style="list-style-type: none">2 minutes recap of previous classPPT with relevant pictures
<ul style="list-style-type: none">Southern, Northern and Western blotting TechniquesDNA sequencing: Sanger method	7 lectures	October	<ul style="list-style-type: none">Discussion through PPTSurprise quizDistribution of assignments
<ul style="list-style-type: none">DNA micro array	3 lectures	November	<ul style="list-style-type: none">2 minutes recap on previous classLectureREVISION