Shri Shivaji Education Society Amravati's

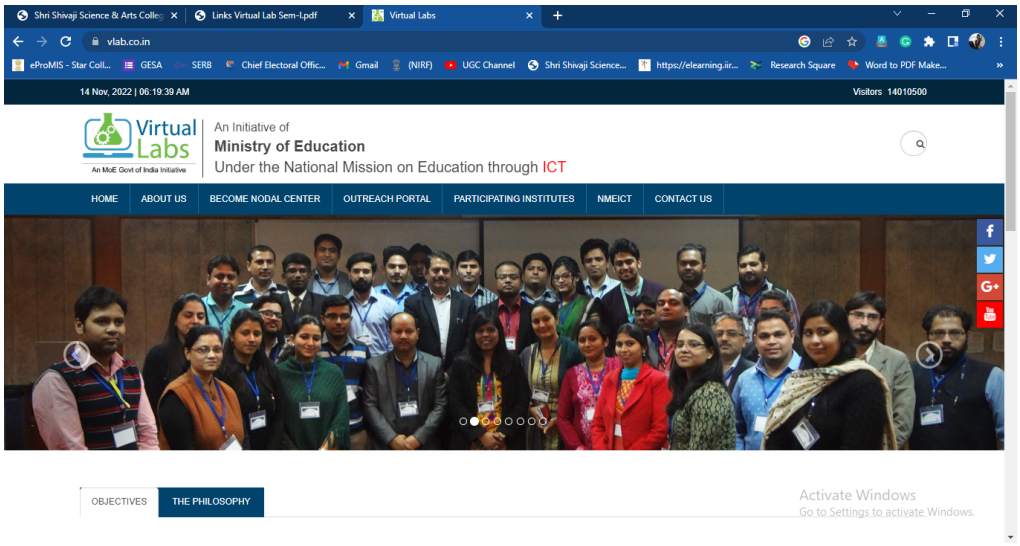
SHRI SHIVAJI SCIENCE AND ARTS COLLEGE

Chikhli, Dist. Buldana

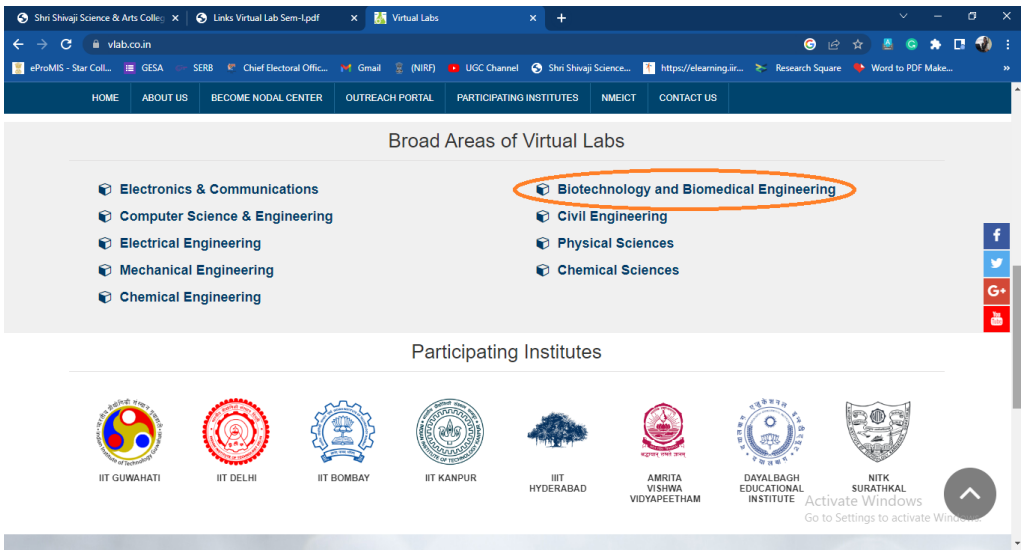
Department of Zoology

List of the virtual experiments to be performed by the students of Zoology
From the direct link of virtual lab provided

1) Go to https://www.vlab.co.in/



2) Click on Biotechnology and Biomedical Engineering



3) Search your desired experiment here_

Sr. No.	Class	Experiment	Link
1	BSc-I	To differentiate between the two major categories of bacteria: Gram positive and Gram negative.	https://vlab.amrita.edu/index.php?sub=3&brch=73&sim=208&cnt=1
2	BSc-I	Mitosis in onion Root Tip	http://cbii-au.vlabs.ac.in/cell-biology-2/Mitosis_in_Onion_Root_Tips/
3	BSc-III	WBCs & RBCs Counting	http://cbii-au.vlabs.ac.in/cell-biology-2/Hemocytometer/experiment.html
4	BSc-II	Demonstration of bar bodies.	http://vlabs.iitb.ac.in/vlabs-dev/labs/zoology_lab/labs/exp1/index.php
5	BSc-II	To mount and study the sex chromatin or drumsticks from the WBCs of a female	http://vlabs.iitb.ac.in/vlabs-dev/labs/zoology_lab/labs/exp2/index.php
6	BSc-II	To determine the amount of dissolved oxygen present in the waste water samples	https://vlab.amrita.edu/index.php?sub=3&brch=272&sim=1430&cnt=1
7	BSc-II	To determine the chemical oxygen demand in the unknown water samples	https://vlab.amrita.edu/index.php?sub=3&brch=272&sim=1413&cnt=1
8	BSc-II	To study the importance of ecological interactions in the ecosystem.	https://vlab.amrita.edu/index.php?sub=3&brch=272&sim=1477&cnt=1
9	BSc-II	To study the relationship between prey and predators in the ecosystem and to understand the basic concept of Prey-Predator cycle using Lotka-Volterra Equations.	https://vlab.amrita.edu/index.php?sub=3&brch=272&sim=1477&cnt=1

10	BSc-II	Case study on Ecology	https://vlab.amrita.edu/index.php?sub=3&brch=272&sim=1496&cnt=1
11	BSc-III	Extraction of DNA from fish fins	https://vlab.amrita.edu/index.php?sub=3&brch=77&sim=218&cnt=1
12	BSc-III	Detection of Blood Group	https://vlab.amrita.edu/?sub=3&brch=69&sim=192&cnt=2
13	PhD	**Bioinformatics tools**	
	1	Retrieving sequence data from Entrez	https://vlab.amrita.edu/?sub=3&brch=273&sim=1437&cnt=1
	2	Retrieving Articles using Pubmed	https://vlab.amrita.edu/?sub=3&brch=273&sim=1442&cnt=1
	3	Retrieving Motif Information of a Protein Using Prosite	https://vlab.amrita.edu/?sub=3&brch=273&sim=1426&cnt=1
	4	Designing a Primer	https://vlab.amrita.edu/?sub=3&brch=273&sim=1501&cnt=1
	5	Pairwise sequence Alignment using BLAST	https://vlab.amrita.edu/?sub=3&brch=274&sim=1428&cnt=1
	6	Pairwise sequence Alignment using FASTA	https://vlab.amrita.edu/?sub=3&brch=274&sim=1434&cnt=1
	7	Aligning Multiple Sequences with CLUSTAL-W	https://vlab.amrita.edu/?sub=3&brch=274&sim=1438&cnt=1
	8	Construction of Cladogram	https://vlab.amrita.edu/?sub=3&brch=274&sim=1453&cnt=1
	9	Phylogenetic Analysis using-PHYLIP-Rooted Tree	https://vlab.amrita.edu/?sub=3&brch=274&sim=1444&cnt=1
	10	Phylogenetic Analysis using-PHYLIP-Unrooted Tree	https://vlab.amrita.edu/?sub=3&brch=274&sim=1447&cnt=1