

Virtual Class room: E- Pathshala

B.Sc. First year semester Ist		
Sr. No.	Name of Experiment	Link
1.	To Identify the Fungal Culture	https://vlab.amrita.edu/?sub=3&brch=76&sim=693&cnt=1
2.	To study External and Anatomical features of Bryophytes.	http://www1.biologie.uni-hamburg.de/b-online/library/webb/BOT201/Mosses/BryoLab-00.htm
3.	Study of symptoms of fungal, viral, bacterial and Mycoplasmal diseases	https://www.apsnet.org/edcenter/disimpactmngmnt/casestudies/Pages/PlantDiseaseDiagnosis.aspx
4.	Demonstration of mushroom cultivation technology.	https://sites.google.com/site/drabdullahla/cultivation-of-mushrooms-in-our-project
B.Sc. First year semester IInd		
1.	Plant Fossils And Their Preservation	https://ucmp.berkeley.edu/IB181/VPL/Pres/PresTitle.html
2.	Fossils: Lyginopteris and Bennettites	https://ucmp.berkeley.edu/IB181/VPL/Osp/OspTitle.html
3.	Gymnosperms: Ginkgo and Conifers	https://ucmp.berkeley.edu/IB181/VPL/CorCon/CorConTitle.html
B.Sc. Second year semester IIIrd		
1.	Introduction to plant structure	https://ucmp.berkeley.edu/IB181/VPL/Ana/Ana1.html#basic
2.	Plant cell and Tissue types	https://ucmp.berkeley.edu/IB181/VPL/Pres/PresTitle.html
B.Sc. Second year semester IVth		
1.	Mitosis in Onion Root Tip	https://vlab.amrita.edu/?sub=3&brch=188&sim=1102&cnt=1
2.	Isolation of Mitochondria	https://vlab.amrita.edu/?sub=3&brch=187&sim=327&cnt=2
3.	Mendelian Inheritance: From genes to traits.	https://www.labster.com/simulations/mendelian-inheritance/
4.	Mendels pea plat experiment	https://www.newpathonline.com/api_player/enus_54_6208/2Lgdgi/index.html
5.	To study the activity of enzyme Amylase	https://www.biologycorner.com/worksheets/enzyme-lab-virtual.html
6.	Test for sugar.	https://www.labster.com/simulations/carbohydrates/
B.Sc. Third year semester Vth		

1.	To study the effect of temperature and organic solvent on permeability of plasma membrane.	https://www.youtube.com/watch?v=UzwOfFvLtJ0
2.	To study osmotic pressure of cell sap by plasmolytic method.	https://www.google.com/search?q=determination+of+osmotic+potential+of+plant+cell+sap+by+plasmolytic+method+pdf&sa=X&hl=en-IN&authuser=0&biw=1366&bih=657&tbm=isch&source=iu&ictx=1&fir=49g1XOL_1iXjXM%253A%252CumeGjgIXHpohZM%252C_&vet=1&usg=AI4_kTrIn1MPE-thsgMSeHmKPyTNbL4sw&ved=2ahUKEwibqPyVgK7oAhWm4XMBHfaKAu0Q_h0wAHoECAoQBA#imgrc=49g1XOL_1iXjXM
3.	To determine the rate of transpiration by Ganongs photometer.	https://byjus.com/biology/ganongs-potometer/
4.	To determine rate of photosynthesis under varying quality of light and CO ₂ concentration.	https://www.newpathonline.com/free-curriculum-resources/virtual_lab/The_Effects_of_Carbon_Dioxide_and_Light_on_Photosynthesis/8/8,9,10,11,12,13,14/1880
5.	Separation of chloroplast pigments by paper chromatography/ solvent extraction method	https://www.youtube.com/watch?v=ej2zXOWASVI
6.	To Study water holding capacity of soil	https://www.youtube.com/watch?v=w1r336ykE9E
7.	Determination of pH of different soils by pH papers/ pH meter.	https://vlab.amrita.edu/?sub=2&brch=193&sim=1549&cnt=1
8.	Estimation of salinity of different water samples	https://www.youtube.com/watch?v=GMQYsMZTHNs
9.	Determination of pH of different water samples by pH papers/ pH meter.	https://vlab.amrita.edu/?sub=3&brch=272&sim=1414&cnt=1
B.Sc. Third year semester VIth		
1.	Preparation of Buffer stocks(TBE, TE and TAE)	https://vlab.amrita.edu/?sub=3&brch=77&sim=1322&cnt=1
2.	Isolation of DNA by crude method	https://bioprep.community.uaf.edu/learning-modules/2-dna-extraction-4/banana-extraction-lab/
3.	Isolation of Protoplast by Mechanical Method	https://www.slideshare.net/VinarsDawane/protoplast-isolation
4.	Basics of Plant Tissue Culture	https://www.youtube.com/watch?v=nggKp10f6kA&feature=youtu.be
5.	Preparation of Tissue culture media	https://www.youtube.com/watch?v=cneaScR3OEc

6.	Pollen viability test	https://www.youtube.com/watch?v=qGLo_cUMIHU
7	Preparation of artificial seeds	https://www.mdpi.com/2073-4395/7/4/71/htm