

Short Term Course (PLANT TISSUE CULTURE) Syllabus

A.Y.-2020-21

(Theory+Practicals-2 Credits)

Department of Biotechnology

Theory :

Sr.No.	Contents	Lectures
1	Introduction and History of Plant Tissue Culture	1
2	Infrastructure And Organization of PTC Laboratory- General & aseptic laboratory, different work areas, equipments & instruments required.	2
3	Aseptic Techniques- sterilization, aseptic work station, precaution to maintain aseptic conditions.	2
4	Culture Media- Nutritional requirements of the explants, PGRs and their in vitro roles, media preparation.	3
5	Callus Culture technique	2
6	Anther and pollen culture	2
7	Suspension culture technique.	2
8	Organ culture technique.	2
9	Applications of PTC / visit to PTC Laboratory.	3

Practicals:

Sr.No.	Title	No.of Practical
1	Asceptic manipulation washing,capping,packing and sterilization	2
2	Preparation of Media	2
3	Callus culture Technique	2
4	Suspension culture	1
5	Shoot tip culture	1
6	Organ culture	1
7	Anther Culture	1