

Signature of the faculty

**JSS COLLEGE FOR WOMEN (AUTONOMOUS)  
SARASWATHIPURAM, MYSORE-09**

**LESSON PLAN**

**Name of the Teacher: Jayashree S**

**Department: Biotechnology**

**Academic year and Semester: 2021-2022**

**Program: B.Sc.**

**Class and Section: V SEM (BMBt & BCBt)**

**Scheme: CBCS**

**Course Name: B.Sc**

**Course Code: FME 230**

**Title of the Paper : DSE – Plant Tissue Culture, Animal Cell Culture & Reproductive Technology**

SI NO	Month	Topic to be covered
1	OCT	<b>Introduction:</b> A brief account of importance and development of animal cell culture. Advantages and disadvantages of cell culture, laboratory facility <b>Animal Cell culture media:</b> Culture media containing naturally occurring ingredients.
2	NOV	blood, plasma, blood serum, serum free media and its advantages, tissue extracts, complex natural media, chemically defined media
3	DEC	<b>Preparation of animal material:</b> isolation of explants. <b>Disaggregation of cells and tissues-</b> enzymatic and mechanical methods <b>Primary culture:</b> Definition and types -- anchorage dependent and anchorage independent cells.
4	JAN	<b>Secondary culture:</b> Cell lines, maintenance and culture of cell lines, Established cell lines – examples and characteristic features.
5	FEB	Growth factor promoting proliferation of animal cells-EGF, NGF, Erythropoietin and PDGF. Activity: Assignment and seminar in the classroom.



  
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