

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 | Introduction: A brief account of importance and development of animal cell culture. Advantages and disadvantages of cell culture, laboratory facility Animal Cell culture media: 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 | Preparation of animal material: isolation of explants. Disaggregation of cells and tissues- enzymatic and mechanical methods Primary culture: Definition and types -- anchorage dependent and anchorage independent cells. |
| 4 | JAN | Secondary culture: 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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