

DEPARTMENT OF BIOTECHNOLOGY AND GENETICS

Value-Added Program (VAP)

Elevating Science : Unleashing the potential of Animal Cell Culture

Elevating Science : Unleashing the potential of Animal Cell Culture-Syllabus (30 hours)

1. **Fundamentals of Animal Cell Culture:** Understanding the basic principles and techniques involved in animal cell culture.
2. **Cell Subculturing and Maintenance Protocols:** Practical guidance on subculturing techniques and maintaining cell lines for sustained growth and viability.
3. **Drug Efficacy Testing using Cell Lines:** Exploring methods and protocols for assessing the effectiveness of drug samples on cultured cell lines.
4. **Cell Viability Assessment Techniques:** Hands-on training in various assays and methods used to evaluate cell viability and cell counting techniques
5. **Exploring Applications in Biotechnology and Medicine:** Examining real-world applications of cell culture techniques in biotechnology , cancer research, vaccine development, and regenerative medicine.