

BACHELOR OF SCIENCE IN BIOTECHNOLOGY

SEMESTER –V

Laboratory Course-IX

Paper Code: BTP-505

BTP505: Laboratory course- IX: Plant biotechnology-II (Max. marks 80+20=100)

1. Suspension culture technique – Initiation of culture, sub culture and growth measurement.
2. Encapsulation technique for plant propagation.
3. Isolation of protoplast and their culture.
4. Synthetic seed preparation from intact regenerable explants of medicinal plants using sodium alginate.
5. Plant Genomic DNA extraction and purification
6. Plant propagation through tissue culture (seed, shoot tips, and nodal cutting) orchids, citrus.
7. Culture of anthers and embryos
8. Agrobacterium mediated genetic transformation of plant and their co-culture
9. Detection of DNA and RNA in transgenic plants.
10. Using the method of western and southern for detection of Transgenic plant.
