

ZO552 ANIMAL BIOTECHNOLOGY

Programme: Master of Science Zoology MSCZO12

Year / Semester: 2nd Year

Credits: 6

BLOCK – I: Fundamental Techniques of Biotechnology

Unit –1 : Introduction, History and scope of Biotechnology

Unit –2 : General Histology and Cell Tissue Culture

Unit –3 : Preparation of Culture Media

Unit –4 : The Stem Cell

Unit –5 : Propagation and Maintenance of Tissue Culture

Unit –6 : Propagation of Cell Lines

Unit –7 : Cellular aspects of Tumor Cells

Unit –8 : In Vitro Fertilization and Embryo Transfer

BLOCK – II : Applied Biotechnology

Unit –9 : Agricultural Biotechnology

Unit –10 : Aquatic Biotechnology

Unit –11 : Microbial Biotechnology

Unit –12 : Environmental Biotechnology – I : Environmentally important Microorganisms, Waste water treatment, waste water utilization

Unit –13 : Environmental Biotechnology – II : Landfill, Composting, Earth worm treatment, Degradation of Plastics

Unit –14 : Bioremediation

Unit –15 : Enzymes Biotechnology

Unit –16 : Industrial Biotechnology