

**Department of Microbiology**  
**List of Practical's introduced**

<b>I YEAR</b>	<b>II YEAR</b>	<b>III YEAR</b>
1. Algal wet mount 2. Examination of protozoa by Hay infusion broth	1. Separation of Nucleic Acid by AGE 2. Separation of protein by PAGE 3. Growth curve- Neubauer Counting Chamber	1. Competent Cell production 2. Transformation of Competent cells 3. SCP production – Azolla and Spirulina 4. Introduction to bioinformatics databases: NCBI, PDB, DDBJ, Uniprot. 5. Sequence retrieval using BLAST Similarity search- Get any two sequence in FASTA format 6. Use ORF finder of NCBI to predict all possible ORF in a DNA sequence 7. Use MOTIF search and PROTPARM tools 8. Sequence alignment & phylogenetic analysis using Clustal W & PHYLIP 9. Nano particle synthesis from bacteria. 10. Nano particle synthesis from plants