

Programme Outcomes, Programme Specific Outcomes For PhD Programmes

Programme Name: Ph.D course work in Microbiology



Name of the Department
University of North Bengal
West Bengal, INDIA

Programme Outcomes

- Significance and understanding of research problem, literature citation, bibliography etc.
- Enumerating the significance of experimental values in terms of statistical analysis
- Understanding and application of different software's in molecular biology and microbiological sampling
- Knowledge of updated techniques in the field of microbiology, biophysics, molecular biology etc.

Programme Specific Outcomes

- Defining research and project proposal
- Importance of statistical analysis of biological sampling
- Hands on experience of bioinformatics tools
- Making students familiar with the advance tools and techniques required for now a day's research in microbiology

Course Outcomes

Course Code	Course Name	Course Outcomes
MBCW 01	Research Methodology and Design	<ul style="list-style-type: none">• Essential steps in defining research problems and experimental design• Format of manuscript, research article, references etc.• Handling and safe disposal of hazardous wastes
MBCW 02	Quantitative methods	<ul style="list-style-type: none">• Understanding the different statistical measurements• Biosafety guideline and regulation• Software handling
MBCW 03	Computer Application	<ul style="list-style-type: none">• Database searching like BLAST, FASTA, CLUSTAL W etc.• Structure function analysis, primer designing.• Molecular docking and drug design
MBCW 04	Advance Microbiology	<ul style="list-style-type: none">• Study of up to date techniques used for research in microbiology• Study of phylogenetic profiling, VNTR, SNTR, Proteomics, microarray etc.• Study of spectroscopy, chromatography, PCR, automation in diagnostics, nano- techniques, sequencing etc.