

Programme: M.Sc. (Microbiology)

Course Code: MIO 117

Title of the Course: MICROBIAL TECHNOLOGY [P]

Number of Credits: 1

Effective from Academic Year: 2018-19

Prerequisites	It is assumed that students have a basic knowledge of different techniques in instrumentation- their principle, working and applications.	
Objective:	This course gives hands-on experience in designing experiments for determining effectiveness of biofertilizers and probiotics.	
Content:		(24)
1.	Determination of stability of microbial fertilizer.	
2.	Effect of microbes on sedimentation and clarification of water.	
3.	Probiotics: Isolation of LABs and their characterization- Gram staining, spore staining, lactose fermentation, Bile tolerance test, adherence efficiency.	
Pedagogy:	Experiments in the laboratory	
References/ Readings	As given under Theory Course MIO 109-T	
Learning Outcomes	1. Explain the procedures for formulation of biofertilizers as well as probiotics. 2. Explain the role of microorganisms in clarification of water.	