

Course title: Biotechnology laboratory – Part 3			
Course code: BBP 107	No. of credits: 7	L-T-P: 0-0-210	Learning hours: 210
Pre-requisite course code and title (if any): None			
Department: Department of Biotechnology			
Course coordinator: Dr Chaithanya Madhurantakam		Course instructor: Dr Chaithanya Madhurantakam /Prof. Anandita Singh / Prof. Shashi Bhushan Tripathi/ Dr. Souren Paul	
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Course type: Core		Course offered in: Semester 3	
<p>Course description: The objective of this laboratory course is to introduce students to experiments related to biotechnology. The course is designed to teach students the utility of various experimental methods in biotechnology in a problem-oriented manner. The list of experiments given in each module is representative and includes experiments. Part A will be common for both the streams. Part B1 is only for Microbial Biotechnology stream whereas Part B2 is only for Plant Biotechnology stream. The instructor may choose experiments for student's laboratory training as per requirements.</p>			
<p>Course objectives:</p> <ol style="list-style-type: none"> 1. To provide training on standard as well as advanced techniques in the field of molecular biology, biochemistry, microbiology and plant biology. 2. To introduce the students to various techniques of bioinformatics used to analyze DNA, RNA and protein sequences 3. To train the students in designing experiments with appropriate controls. 			