

Course title: Statistics for the life sciences			
Course code: BBP 112	No. of credits: 3	L-T-P: 30-15-0	Learning hours: 45
Pre-requisite course code and title (if any): None			
Department: Department of Biotechnology			
Course coordinator: Dr. Amit Kaur		Course instructor: Dr. Amit Kaur	
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Course type: Core		Course offered in: Semester 3	
<p>Course description:</p> <p>Most of the research in the area of life sciences involves primary data generation through experimentation. When one is confronted with a new problem that involves the collection and analysis of data, two crucial questions exist: “How will using statistics help this problem?” and “Which techniques should be used?” The course has been designed and intended to help budding life scientists to answer these questions. The course is about how to extract information from data and how informative data are generated in the first place. Analysing data is part science, part craft and part art. An effort has been made through this course to provide some useful tools ‘to get to the grips’ of biological phenomena and problems and to encourage the students to develop the necessary craft and art.</p>			
<p>Course objectives:</p> <ul style="list-style-type: none"> ▪ Appreciate stochastic nature of biological phenomena and need for studying statistical methods ▪ Become mindful of a wide range of applications of statistics in life sciences ▪ Understand the relation between probability and statistics 			