

<b>Course title:</b> Microbial pathogenesis			
<b>Course code:</b> BBP 145	<b>No. of credits:</b> 2	<b>L-T-P:</b> 15-15-0	<b>Learning hours:</b> 30
<b>Pre-requisite course code and title (if any):</b> None			
<b>Department:</b> Department of Biotechnology			
<b>Course coordinator(s):</b> Prof. Ramakrishnan Sitaraman		<b>Course instructor(s):</b> Prof. Ramakrishnan Sitaraman	
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<b>Course type:</b> Elective		<b>Course offered in:</b> Semester 2	
<p><b>Course description:</b>  Microbial diseases impose significant social and economic burdens on human society. However, the insights gained from both medicine and basic biology thus far have led to a better understanding of disease mechanisms. This new knowledge has greatly helped in the prevention, management and cure of several diseases. This course aims to impart an understanding of some of the current paradigms in microbial pathogenesis.</p> <p>The study material for this course will include textbooks, case studies and articles from field journals. This is a highly participatory course with a significant component of self-study of assigned material from the literature and student presentations of case studies. Problem-based learning will be a critical component of the evaluation process. Evolutionary and ecological perspectives will be emphasized to provide a truly integrative framework to understand host-pathogen interactions and their consequences.</p>			
<p><b>Course objectives:</b></p> <ol style="list-style-type: none"> <li>1. To present key aspects of the biology of different pathogens and their interactions with the host.</li> <li>2. To enable synthesis of information in order to study communicable diseases within an evolutionary-ecological framework.</li> </ol>			