

<b>Course title:</b> Econometrics I			
<b>Course code:</b> MPE 186	<b>No. of credits:</b> 4	<b>L-T-P:</b> 57-0-6	<b>Learning hours:</b> 60
<b>Department:</b> Department of Policy and Management Studies			
<b>Course coordinator:</b> Dr Priyanka Arora		<b>Course instructor:</b> Dr Priyanka Arora	
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<b>Course type:</b> Core			
<p><b>Course description:</b>  This course introduces the theories of statistics and econometrics and provides an insight into their applications to economic problems. The course starts with fundamental concepts random variables. After a discussion of some special families of distributions that are widely used in economic applications, the students are introduced to estimation and hypothesis testing. These concepts create a foundation for the subsequent modules on estimation and inference in regression models. The course also emphasizes a discussion of challenges and limitations of regression analysis. The students learn the techniques for preparing raw data for analysis, summarisation, and visualisation of data, and carrying out basic econometric analysis using software such as STATA and R. This course also creates a foundation for advanced econometrics classes and research methods.</p>			
<p><b>Course objectives:</b></p> <ol style="list-style-type: none"> <li>1. To provide a foundation of Statistics and Econometrics for undertaking data analysis in Economics.</li> <li>2. An exposure to various theories of Statistics and Econometrics, along with a demonstration of their applications.</li> <li>3. To introduce students to use of statistical software for data analysis.</li> </ol>			