

**MSc in Economic Policy**  
**ECP77211 Quantitative Methods for Economics I**

<b>Module Code</b>	
<b>Module Name</b>	
<b>ECTS Weighting</b>	
<b>Semester taught</b>	
<b>Module Coordinator/s</b>	
<b>Module Learning Outcomes</b>	<p>On successful completion of this module, students should be able to:</p> <p>MLO3.1 Explain and apply statistical terminology;  MLO3.2 Formulate problems in the language and terminology of statistics;  MLO3.3 Solve problems related to the topics in the module;  MLO3.4 Explain statistical reasoning in a clear, concise, and correct manner;  MLO3.5 Use STATA to conduct data analysis.</p>
<b>Module Content</b>	<p>This module introduces the basic concepts of data analysis and statistics with practical applications in economics and policy. The emphasis is on the practical application of quantitative reasoning, visualization, and data analysis. The goal is to equip students with the tools necessary for conducting their own statistical analyses. Topics covered include basic descriptive measures, probability, measures of association, sampling and sample size estimation, and confidence intervals. Assignments are based on real-world data and problems in a wide range of fields.</p>
<b>Assessment Requirements</b>	<ul style="list-style-type: none"> <li>• Two homework assignments accounting for 40% of the overall grade</li> <li>• 2-hour in-person exam accounting for 60% of the overall grade.</li> <li>• Reassessment: 2-hour exam accounting for 100% of the grade</li> </ul>
<b>Contact Hours</b>	<p>Number of lectures: 18 hours  Number of lab sessions: 6 hours</p>
<b>Recommended Reading List</b>	<ul style="list-style-type: none"> <li>• Sanjiv Jaggia and Alison Kelly, 2025. "Business Statistics: Communicating with Numbers". McGraw Hill, 5th Edition</li> <li>• Doing Economics by CORE. Link <a href="#">here</a>.</li> </ul>
<b>Module Website</b>	<p>The module material will be made available on <a href="#">Blackboard</a></p>

<b>Contact Information</b>	Prof. Gaia Narciso Office hours: TBD Email: <a href="mailto:narcisog@tcd.ie">narcisog@tcd.ie</a>  Dr Tsenguunjav Byambasuren Office hours: TBD
<b>Teaching Assistant</b>	TBD

Week	Topic	Lab session
<b>Week 5</b> Sept 26 <sup>th</sup>	Intro to Statistics	
<b>Week 6</b> Oct 3 <sup>rd</sup>	Summary statistics	Lab session 1
<b>Week 7</b> Oct 10 <sup>th</sup>	Introducing Probability	Lab session 2
<b>Week 8</b> Oct 17 <sup>th</sup>	Discrete Distributions	Lab session 3
<b>Week 9</b> Oct 24 <sup>th</sup>	Continuous Distributions	
<b>Week 10</b>	<i>Reading week</i>	
<b>Week 11</b> Nov 7 <sup>th</sup>	Sampling	
<b>Week 12</b> Nov 14 <sup>th</sup>	Estimation	Lab session 4
<b>Week 13</b> Nov 21 <sup>st</sup>	Hypothesis testing	Lab session 5
<b>Week 14</b> Nov 28 <sup>th</sup>	Revision	Lab session 6