

STATISTICAL LABORATORY

Lecture 1: Fundamental Concepts of Statistics (Practice)

Yiu Lim LUI, Allen

Lisbon School of Economics & Management
Universidade de Lisboa

`allenlui@iseg.ulisboa.pt`

Applied Mathematics for Economics and Management
1st Year / 1st Semester – 2026/2027

Question 1.1

Distinguish the objectives of Descriptive Statistics from those of Inferential Statistics.

Question 1.2

What is the importance of sampling studies compared to census studies? Illustrate your answer with the underlying concepts.

Question 1.3

Distinguish between the concepts of statistic and parameter.

Question 1.4

Distinguish between cross-sectional data, time series data, and panel data, providing examples.

Question 1.5

How can variables be classified according to the type of measurement scale? Provide examples.

Question 1.6

How can variables be classified according to the number of values they can take? Provide examples.